

## PRODUCTS/Polystyrene Products/Extruded Polystyrene Products/Foamboard



Foamboard is a thermal insulation material in the form of rigid boards, manufactured out of polystyrene, a derivative of petroleum, by using the extrusion method. The boards have a closed-cell structure and therefore are resistant to water and humidity. They have an excellent thermal insulation property.

### Application Fields:

For thermal insulation of flat roofs, either accessible or inaccessible, as inverted roof gardens, flat roof parking decks, exterior walls of buildings insulated either on the inner or outer face, below grade exterior walls of basements (perimeter insulation), on-grade floors of buildings, cold store insulation.

### Specifications:

| Properties                                    | Test Method            | Foamboard                       |             |             |             |             |             |
|---|------------------------|---------------------------------|-------------|-------------|-------------|-------------|-------------|
|   |                        | 1200                            | 1500        | 2000        | 2500        | 3000        | 3500        |
| Thermal conductivity<br>W/mK                  |                        | 0,030-0,032                     | 0,029-0,031 | 0,028-0,031 | 0,028-0,030 | 0,028-0,030 | 0,027-0,029 |
| Compressive strength<br>(for 50 mm thickness) | ISO 844<br>ASTM D-1621 | > 120 kPa                       | > 150 kPa   | > 200 kPa   | > 250 kPa   | > 300 kPa   | > 350 kPa   |
| Water absorption<br>(% volume)                | ASTM C-272             | < 0,1                           |             |             |             |             |             |
| Vapour permeability<br>(m <sup>2</sup> / sec) | ISO 21582<br>ASTM E-96 | 0,14 x 10 <sup>-4</sup><br>0,80 |             |             |             |             |             |
| Capillarity                                   | ISO 2896               | None                            |             |             |             |             |             |
| Fire resistance                               | BS 3837<br>ASTM E-87   | Type A<br>5                     |             |             |             |             |             |
| Application<br>temperature (° C)              | -                      | - 50 / + 75                     |             |             |             |             |             |
| Thickness (mm)                                |                        | 20 - 100                        |             |             |             |             |             |
| Dimensions (cm)                               |                        | 60 x 125                        |             |             |             |             |             |
| Edge profiles                                 |                        | Square or shiplap               |             |             |             |             |             |
| Surface treatments                            |                        | Smooth, rough or fluted         |             |             |             |             |             |

- Izopor T is classified as "B1" group hardly-inflammable according to DIN 4102
- Very high R value.
- Not effected by water or humidity due to 100% closed cell structure.