

# RS-ED18

## Expanded Polystyrene (EPS) Foam Board

RS EPS boards combine premium pre-expanded beads with advanced manufacturing to offer ultra-lightweight, high-insulation solutions. From sustainable construction and architectural accents to high-impact shock absorption in packaging, we provide cost-effective versatility without compromising on quality.

High-performance insulation for roofs, walls, and floor systems, enhancing energy efficiency.



### Product properties in accordance with ASTM C578

| Property                 | Performance              | Test standard                  |
|--------------------------|--------------------------|--------------------------------|
| Thermal conductivity     | $\leq 0.038$ W/m.K       | ASTM C518 / EN 12667           |
| Maximum use temperature  | 75°C – 80°C              | Internal / ISO 2795            |
| Sag resistance           | Excellent / No sagging   | ASTM C203                      |
| Linear shrinkage         | $\leq 1.0\%$             | ASTM D2126 / EN 1603           |
| Reaction to Fire         | B1 / B2 / ClassB         | EN 13501-1 / UL 94<br>ASTM E84 |
| Compressive Strength     | $\geq 80$ kPa            | ASTM D1621 / EN 826            |
| Water Vapor Permeability | 1.5-5.0ng/(Pa·s·m)       | ASTM E96 / EN 12086            |
| Water Repellency         | $\geq 98\%$              | ASTM C272                      |
| Water Absorption         | $\leq 1.0\%$ (by volume) | ISO 2896 / EN 12087            |
| Density                  | 18 kg/m <sup>3</sup>     | ASTM D1622 / EN 1602           |

All values are nominal values for standard industrial production. Standard industrial production tolerances applicable.

ISO 2896 / EN 12087

### Compliance

- Standard Fulfillment: RS EPS Foam Board fully complies with internationally recognized industry standards, including ASTM C578, EN 13163, and GB/T 10801.1.
- Superior Moisture Resistance: Engineered with a high-density closed-cell structure, our boards ensure excellent water resistance and consistent long-term thermal performance.
- Environmental Responsibility: Sustainable manufacturing process aligned with global building safety requirements.

### Disclaimer

As RS has no control over insulation design and workmanship, accessory materials or applications conditions, RS does not warranty the performance or result of any installation containing RS products. RS overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty is in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose. RS Insulation reserves the right to make necessary product changes at any time. Technical specifications are thus stated subject to change.

