

RS-SED18

Graphite EPS (SEPS)

RS Graphite EPS (SEPS) represents a leap forward in thermal technology. The infused graphite acts as an infrared absorber, reflecting heat and boosting insulation performance by approximately 20%.

Delivers up to 20% higher thermal insulation efficiency compared to standard white EPS.



Product properties in accordance with ASTM C578

Property	Performance	Test standard
Thermal conductivity	≤ 0.032 W/m.K	ASTM C518
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	Class B1 (Flame-retardant)	13501-1 / UL 94 ASTM E84
Compressive Strength	≥ 100 KPa	ASTM D1621
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 ⁶⁾	18 kg/m ³	ASTM D1622

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

Compliance

- Standard Fulfillment: RS Graphite EPS (SEPS) boards strictly comply with internationally recognized industry standards, including ASTM C578, EN 13163, and GB/T 10801.2.
- Superior Moisture Resistance: Engineered with a high-density closed-cell structure, our boards provide exceptional water resistance and maintain consistent long-term thermal performance even in humid environments.
- Environmental Responsibility: Our sustainable manufacturing process is CFC/HCFC-free and fully aligned with global green building and safety requirements.

Disclaimer

As RS Insulation has no control over insulation design, workmanship, accessory materials, or application conditions, RS does not warrant 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.

