



Color Steel Integrated Composite Panel

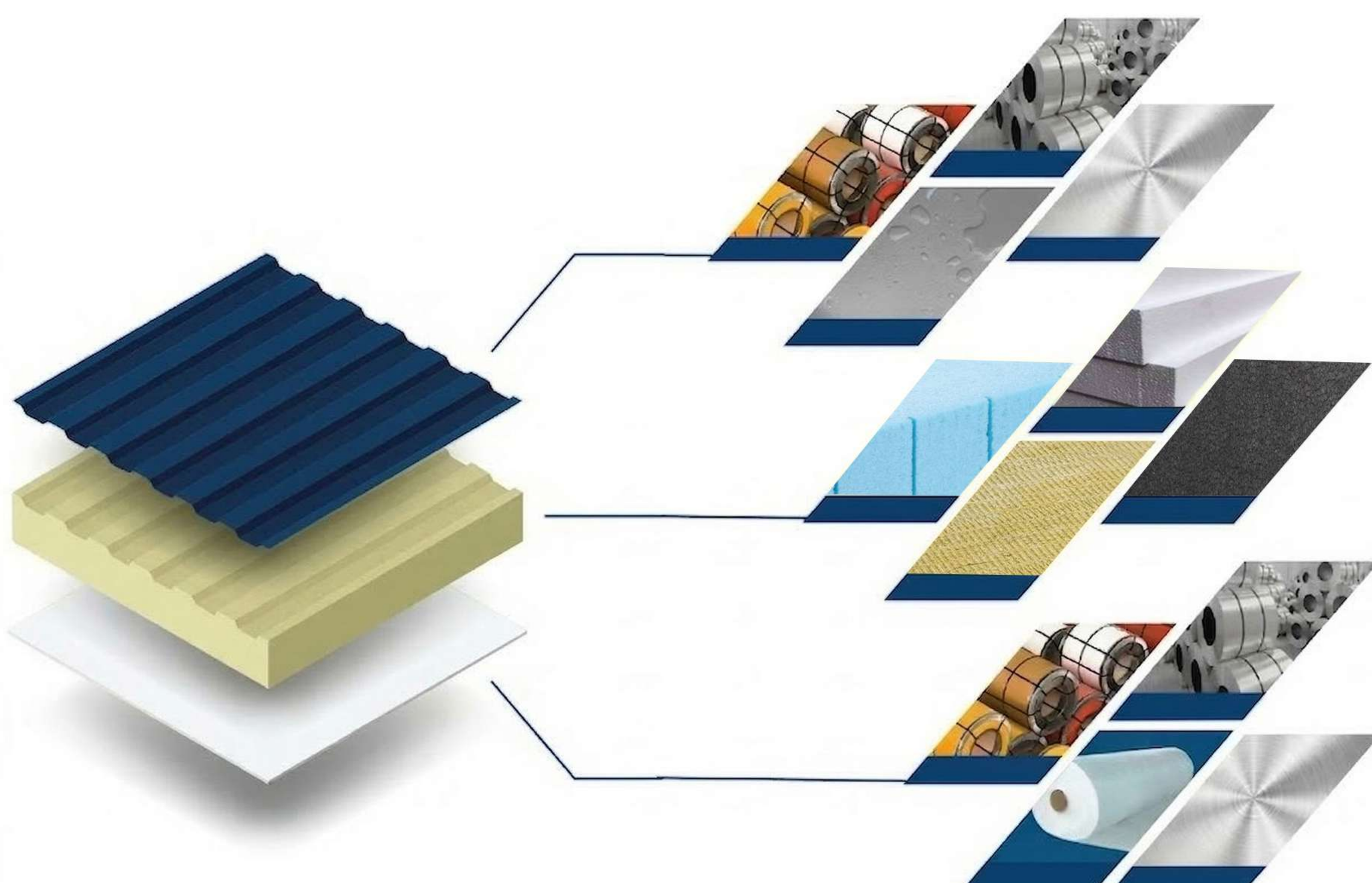
The color steel integrated composite panel is a highly efficient (commonly known as the color steel sandwich panel), lightweight building material that integrates load-bearing, thermal insulation, waterproofing, and decorative functions. Manufactured on automated production lines, it tightly bonds color-coated steel sheets with various thermal insulation core materials, making it an ideal choice for modern industrial and prefabricated buildings.

Custom products available upon request.



Property	EPS	SEPS	XPS	Rock Wool	Test standard
Thermal conductivity	≤0.041 W/m.K	≤0.032 W/m.K	≤0.030 W/m.K	≤0.038 W/m.K	ASTM C518
Density	18-25kg/m ³	20-30kg/m ³	30-45kg/m ³	100-160kg/m ³	ISO 29470
Sag resistance	Excellent / No sagging				ASTM C411
Linear shrinkage	≤1.0 %	≤1.0 %	≤1.0 %	Negligible	ASTM D2126
Reaction to Fire	B1 / B2	B1	B1 / B2	A1	GB 8624 EN 13501
Compressive Strength	≥100kPa	≥150kPa	≥250kPa	≥40kPa	ASTM D1621
Tensile Strength	≥0.10MPa	≥0.15MPa	≥0.20MPa	≥0.15MPa	EN 1607 / ASTM D1623
Water Repellency	≥98%	≥98%	≥99%	≥98%	ASTM C272
Water Absorption	≤4%	≤3%	≤1%	≤1%(Hydrophobic)	ISO 2896

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



"Versatile Core Material Options"

We offer four distinct core material options to match your project budget, fire rating requirements, and local climate

- EPS - Expanded Polystyrene
- Rock Wool
- SEPS - Graphite Polystyrene
- XPS - Extruded Polystyrene

COLORS



STEEL SKIN PROFILE CUSTOMIZATION OPTIONS

<p>MICRO-RIB Standard fine grooves, 2mm depth, for walls/ceilings</p>	<p>WAVE PROFILE Subtle curves, 8mm height, general-purpose</p>	<p>TRAPEZOIDAL DEEP RIB High load-bearing, 35mm height, roofing/long spans</p>	<p>FLAT SURFACE Clean room/smooth finish, 0mm depth</p>
<p>MICRO-RIB Standard fine grooves, 2mm depth, for walls/ceilings</p>	<p>WAVE PROFILE Subtle curves, <small>CUSTOM DENSITY</small></p>	<p>TRAPEZOIDAL DEEP RIB High load-bearing, <small>CUSTOM DEPTH</small> 35mm height, roofing/long spans</p>	<p>FLAT SURFACE Clean room/smooth finish, 0mm depth</p>

Compliance

- Fully compliant with ASTM E84 (Class A) and GB 8624 (Grade B1/A) standards. Our core materials (Rock Wool/XPS/EPS) provide a superior fire barrier, ensuring maximum safety for industrial and commercial building envelopes.
- Meets international building energy-saving standards.
- The integrated structure significantly reduces thermal bridging, helping projects achieve lower energy consumption and optimal indoor temperature control.
- The pre-painted steel sheets are tested to ISO 11507 standards. Our high-performance coatings are engineered to be crack-free and fade-resistant for over 15-20 years, even in harsh tropical or coastal environments.

Disclaimer

RS Insulation Board is responsible solely for the manufacturing quality of the products. As we have no direct oversight of project design, on-site installation techniques, or the quality of accessory materials (such as adhesives and sealants), RS does not guarantee the long-term performance of the fully installed system.

We support custom color matching based on RAL codes or physical samples. However, please note that slight color variations may occur between different production batches. To ensure optimal color consistency across your project, we strongly recommend ordering the total required quantity in a single batch.

Product images are for illustrative purposes only. We reserve the right to modify technical specifications and product designs at any time without prior notice to improve product performance.

