

Product technical specification

Revision Date: TDS Number:

Product name: thermal insulation decorative integrated board version: V 3.1

Product profile

Wanhua insulation decoration integrated board is a new insulation decoration wall material through continuous foaming technology, with vertical silk rock wool or hard foam polyurethane as the core material, the upper surface is the decorative panel, and the lower surface composite interface reinforced coil formed at one time. It mainly includes PRR insulation decorative board and polyurethane insulation decorative board two types.

The decorative surface layer mainly includes ceramic sheet veneer, cement fiber pressure plate veneer, metal veneer, composite brick veneer and other series.

Product characteristics

- 1, the decorative panel is thin, the decorative effect is rich;
- 2. Excellent mechanical properties;
- 3, Paste + anchorage double insurance, high safety;
- 4, the interface layer without cavity, do not fall off;
- 5, simple operation, less construction process, short construction period;
- 6, three waterproof system, good waterproof performance.

Performance Index

Project	Wanhua PRR Thermal Insulation	Rock Wool Insulation Decoration Panel
	Decoration Panel	Rock wool insulation Decoration Panel
Production Process	Continuous Microcellular Infusion	Adhesive Bonding Method / Batch Process /
	Self-adhesive Foaming Process / High	Low Production Efficiency (Capacity: 800 m² per
	Production Efficiency (Capacity: 2,500 m²	8-hour shift)



	per single production line in 8 hours)	
Base Liner	Cement-Based Interface Reinforcement	C.I., C.I., A.D., I
Material	Membrane	Calcium Silicate Board
	Thickness: 0.45mm (reduces insulation board	
	weight by ~15-20% for easier handling and	The 4mm thickness significantly increases the dead
	transport)	load of the insulation decorative panel system while
Characteris	Safety-enhanced design (passes EN 13501-1	exhibiting low shear resistance . The material
	fire safety standards)	demonstrates high water absorption and poor
tics of the	Embedded reinforcement mesh:	water/freeze-thaw durability, with a strength
Base Liner	• Mesh type: Fiberglass grid (120-160g/m²)	reduction exceeding 25% after 25 freeze-thaw cycles.
	Stress distribution: Improves flexural	Notably, the calcium silicate board shows inadequate
	strength by 30% (ASTM C203)	compatibility with bonding mortar, leading to
	Deformation control: Limits thermal	frequent delamination failures.
	expansion to ≤0.5mm/m (EN 1607)	

Production Engineering

Wanhua thermal insulation decorative board adopts the domestic advanced continuous production process. Compared with the traditional mold method and bonding production process, the continuous method is easier to realize the rock wool layer and the interface layer without cavity bonding. The whole production process is real-time dynamic monitoring, the product quality is stable and controllable, and the production efficiency is 10 times higher than the traditional production process.

For more information, please refer to the safety technical manual for our products or contact our customer service center

The indicators and data given in this data are based on our existing technical knowledge level and practical experience and are for reference only. The specific guarantee index shall be subject to the provisions of the quality guarantee certificate or the supply contract. Users have the responsibility for testing the products purchased to verify whether they are suitable for the proposed process and use and to achieve the intended purpose. Further application and processing of our products are beyond our control, so our liability for the products provided is limited to the parts delivered by us and used by you. We will not bear the indirect losses caused by the production process of using our company's products as raw materials. Our company technical support and



customer service center is willing to provide you with product consulting and application technology services, welcome to contact.

Address: Wanhua Energy Saving Technology (Yantai) Co., LTD., No.56, Taiyuan Road, Yantai city, Shandong Province

Address: Wanhua Energy Saving Technology (Yantai) Co., LTD., No.56, Taiyuan Road, Yantai city, Shandong Province

Address: Wanhua Energy-Saving Technology (Yantai) Co., Ltd.

No. 56 Taiyuan Road, Yantai City, Shandong Province, China

Email: mouwen@126.com