

Product Technical Manual

Revision Date: 2021-05

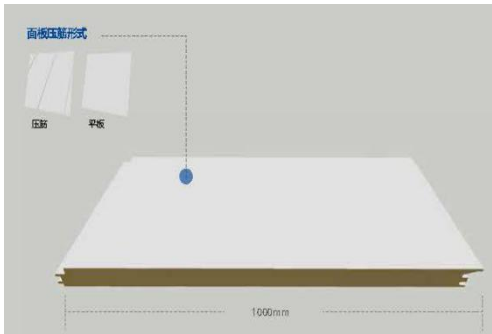
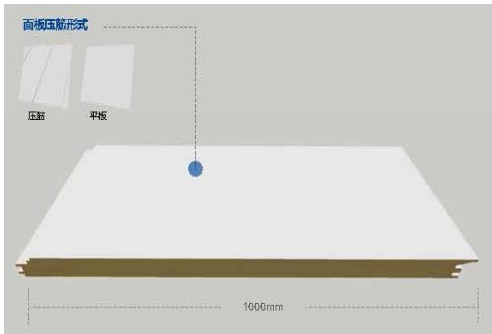
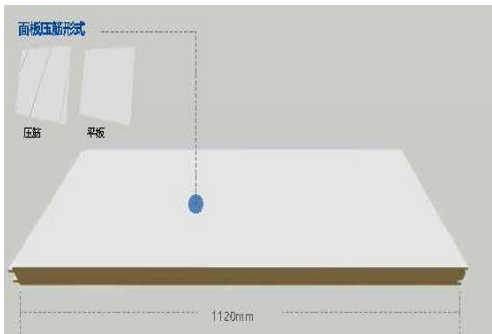
TDS Number:

Product Name: Metal-faced rock wool (glass wool) sandwich panel

Version: V 3.1

Product Introduction

The metal-faced rock wool (glass wool) sandwich panel is a high-end wall sandwich panel featuring metal surfaces as protective layers and rock wool as the fireproof and thermal insulation core. It is continuously manufactured on an advanced specialized production line jointly developed through the strong collaboration between China's Wuxi Weihua and Germany's HENNECKE-OMS, two industry-leading brands. This product is widely used in various industrial plants, warehouses and other applications. Our company offers professional customization services to meet customer requirements, including options for sheet metal materials (such as color-coated steel, stainless steel, galvanized/aluminum-zinc alloy steel), profiling methods (flat or ribbed), and dimensional specifications. The product series consists of three main categories: rock wool (glass wool) seamed exterior wall panels, rock wool (glass wool) seamless exterior wall panels, and rock wool (glass wool) interior partition panels. Notably, both the seamed and seamless exterior wall panel variants incorporate a polyurethane rigid foam insulation sealing edge reinforcement layer, which significantly enhances the panels' overall thermal insulation, waterproofing and mechanical performance characteristics.

Name	Product Profile	Product Features
Rock Wool (Glass Wool) Seamed Exterior Wall Panel		Featuring polyurethane edge-sealing technology, the panels demonstrate exceptional fireproof and moisture-resistant performance. Designed for horizontal exterior wall installation with adjustable joint spacing, the tongue-and-groove edges on all four sides enable an aluminum curtain wall aesthetic effect.
Rock Wool (Glass Wool) Seamless Exterior Wall Panel		With polyurethane side-sealing technology, the panels deliver excellent fireproof and moisture-resistant performance. Suitable for both vertical and horizontal exterior wall installation, the unique water drainage channel design effectively prevents rainwater infiltration in vertical panels.
Rock Wool (Glass Wool) Interior Partition Panel		Featuring non-combustibility with Class A fire rating, the panels are designed for interior partitions and ceilings. They exhibit exceptional hydrophobicity and aging resistance, along with superior thermal insulation and sound absorption properties. The eco-friendly material is biodegradable with high acidity coefficient, significantly reducing metal corrosion.

Product Specifications

Standard panel thickness options include 50mm, 100mm, and 150mm, with customizable length specifications and other thickness variations available upon request.

Precautions for Use

1. Labor protection must be observed during installation to prevent injuries from

falling panels or cuts from panel edges.

2.The construction site shall be a fire-prohibited area and kept away from ignition sources. Smoking is strictly prohibited. When hot work is conducted nearby, a fire permit system must be strictly implemented with corresponding safety measures and dedicated supervision.

Panel Packaging

1.Panels are categorized by length, with angle iron edge protection and secured with ropes.

2.Packaging crates should be constructed using section steel, metal sheets, or wooden boards.

3.: Determined jointly by the supplier and purchaser, in principle not exceeding 2.8m.

4.Polyethylene film or kraft paper should be placed between sandwich panels, with protective film covering the exterior surfaces.

Transportation

1.Products can be transported by truck, train, ship, or container. Trucks may carry goods in bulk, while other transport methods require boxed or bundled packaging. During transit, stacking height and width must comply with local road transport regulations.

2.During transportation, sandwich panels must not be heavily compressed, dropped violently, or collide with sharp objects. They should be laid flat and secured with ropes or straps, properly supported to avoid pressure or mechanical damage. Open flames are strictly prohibited.

3.Storage areas should be level, minimize vibration, and prevent collisions.

Measures must be taken to avoid compression or mechanical damage, provide rain protection, and prohibit open flames.

4.When handling long sandwich panels, lifting from both ends is strictly forbidden to prevent breakage.

5.Sandwich panels must not be transported in the same vehicle or ship as chemically reactive substances or damp materials.

6.During loading and unloading, collisions should be avoided, and throwing is strictly prohibited.

Storage

Sandwich panels should be stored in a clean, dry, ventilated, non-corrosive warehouse, protected from rain and snow. If stored outdoors, they must be isolated from corrosive agents with waterproof and moisture-proof measures, avoiding direct sunlight.

The storage area should be firm and level. Loose stacking height should not exceed 2.8m. Pallets or foam boards must support the panels, with spacing no more than 2.0m apart to prevent bending deformation.

Storage must be away from heat sources, open flames, and contact with chemicals.

Storage should be in an environment above 15 °C. If temperatures drop below 10 °C, polyurethane foam-edged products must be conditioned at room temperature before moving outdoors.

Fire and Explosion Hazards

This product is not classified as flammable, explosive, oxidizing, corrosive, poisonous or radioactive hazardous material during storage and transportation, and does not belong to dangerous goods.

The rock wool core material of this product is Class A non-combustible material and will not normally cause fire. In case of fire, the product can be extinguished using water, carbon dioxide, foam or dry chemical powder fire extinguishers.

Firefighting procedure: Normal protection.

Solid Waste Treatment/Management

The disposal of waste panels and panel scraps generated during construction, transportation, and storage must comply with local government environmental regulations.

For more information, please refer to the Safety Data Sheet (SDS) of our products or contact our Customer Service Center.

The indicators and data provided in this document are based on our current level of technical knowledge and practical experience, and are for reference only. Specific guaranteed indicators are subject to the quality assurance certificate or supply contract. The user is responsible for testing the products purchased from our company to verify their suitability for their intended processes and applications, and to achieve the desired objectives. Further application and processing of our products are beyond our control. Therefore, our liability for the products provided is limited to the portion delivered by us and used by you. We do not assume responsibility for indirect losses incurred during the production process using our products as raw materials. Our technical support and customer service center are available to provide consultation and technical services related to our products. We welcome your inquiries and communication via mail or phone.

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