

PU Edge Sealing Rock Wool Sandwich Roof Panel



1. Product Introduction

Polyurethane edge-sealed rock wool ceiling panels are high-performance building materials designed for superior thermal insulation, fire resistance, and sound absorption. The core consists of high-density rock wool, providing excellent fireproofing (up to A1 or A2 fire rating) and thermal stability. The polyurethane-sealed edges enhance structural integrity, prevent moisture absorption, and improve durability.

2. Advantages

Fire Safety: Non-combustible rock wool core meets stringent fire standards.

Thermal & Acoustic Insulation: Low thermal conductivity ($\lambda \approx 0.022 - 0.035 \text{ W/m} \cdot \text{K}$) and superior sound absorption.

Durability: Corrosion-resistant metal layers and robust sealing ensure longevity.

Lightweight & Easy Installation: Modular design reduces construction time.

Eco-Friendly: Recyclable materials comply with green building certifications (LEED, BREEAM).

3. Applications:

Ideal for industrial facilities, cold storage, commercial buildings. Available in custom thicknesses (50 - 200 mm) and finishes (PE, PVDF, HDP).

4. Data Base

PU Edge Rock Wool Sandwich Roof Panel	
Surface Steel Thickness	0.4 mm— 0.8mm
Surface Panel Material	PPGI /Stainless steel/Aluminium sheet
Panel Thickness	50mm/60mm/75mm/100mm/150mm/200mm
Panel Standard Width	1000mm
Panel Length	Customized according to customer requirements
Core Material Density	80-140kg/m ³
Combustion Performance	Class A
Thermal Insulation Property	≤0.04W (M.K)
Noise Reduction Performance	Average sound insulation ≥37dB (50mm)
Durability	Chemically stable, surpassing organic materials
Operating Temperature	-268°C to 700°C
Inner/outer steel plate thickness, coating, and manufacturer can be customized per client requirements	