

ROCKWOOL SANDWICH PANEL SYSTEM

Exterior Wall & Acoustic Solutions



1. Company Introduction

Bighands Building Supplies is a 100% Australian-owned supplier of high-performance building materials, supporting residential, commercial, and industrial projects across New South Wales.

With over 15 years of industry experience, we have become a reliable partner for contractors, designers, and project teams, delivering premium materials for projects of all scales. Our team brings in-depth knowledge of Australian standards and construction practices, ensuring every solution is practical, compliant, and built to last.

Conveniently located in central Sydney, we provide efficient order fulfilment and readily available stock to support demanding project timelines. We understand the importance of keeping projects on schedule, helping minimise downtime and ensuring smooth delivery when it matters most.

More than just a building materials supplier, Bighands acts as a trusted advisor. Our team offers technical support, product guidance, and tailored recommendations to help you select the most suitable materials for your application. Whether at the design stage or during construction, we aim to support better decision-making and long-term project performance.



Project Example

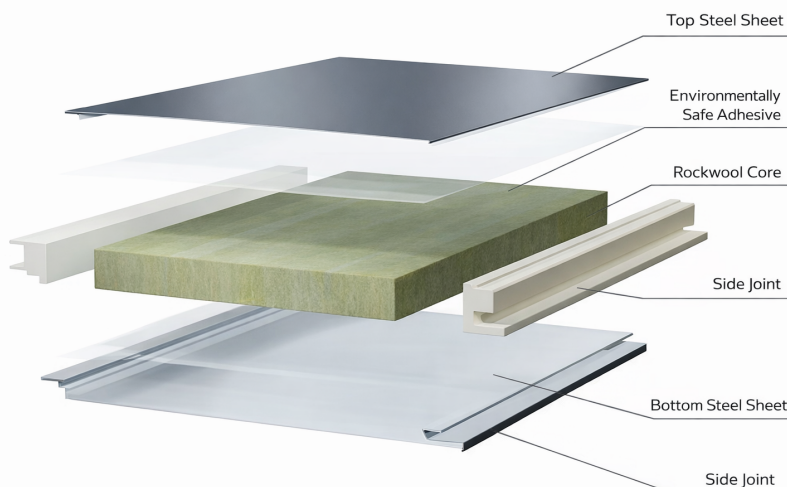
2. Rockwool Panel Overview

Rockwool Sandwich Panel is a high-performance composite panel consisting of two metal facings bonded to a non-combustible mineral wool core. It is specifically designed for applications where fire safety, thermal efficiency, and acoustic performance are critical.

Compared to conventional insulated panels, rockwool panels provide enhanced fire protection and structural stability, making them suitable for projects with higher compliance requirements.

Key Features

- Non-combustible (A1 Fire Rating) – melting point exceeding 1000°C
- Provides stable thermal performance with low thermal conductivity, supporting energy efficiency
- Fibre structure improves sound absorption and reduces noise transmission
- Excellent dimensional stability and durability for long-term performance in demanding environments



Typical Rockwool Sandwich Panel Structure

3. Rockwool Technical Specifications

General Specifications

- Core Material: Mineral Wool (Rockwool)
- Panel Type: Double skin metal-faced sandwich panel
- Core Thickness: 50 – 200 mm
- Panel Width: 1000 mm
- Length: 2.0 m – 12 m

Fire Performance

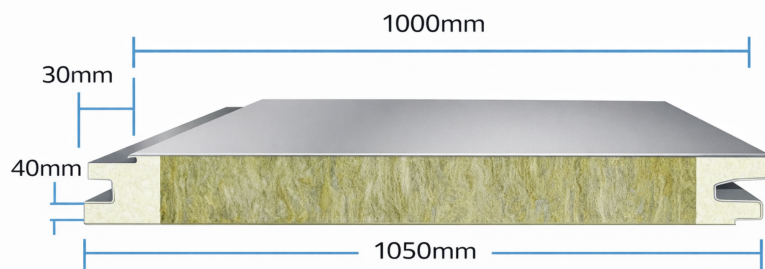
- Reaction to Fire: A2-s1, d0 (EN 13501-1)
- Fire Resistance Level: Up to -/240/240 (AS 1530.4:2014)
- Non-combustible core with melting point above 1000°C

Thermal Performance (at 23°C)

Thickness (mm)	R Value	U Value	Weight (kg/m²)
150	4.25	0.24	26.25
175	4.95	0.20	31.00
200	5.65	0.18	33.75

3A. Panel Profiles & System Options

Type A – Rockwool Panel (Seamed)

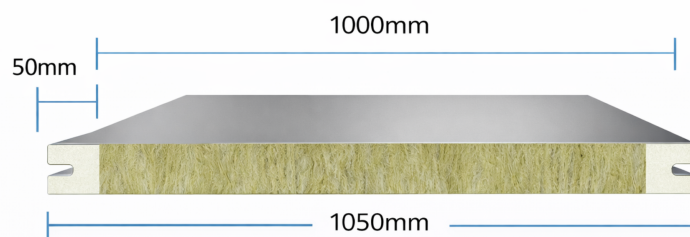


Type A - Rockwool Panel (Seamed)

- Concealed joint system

Type A Panel

Type B – Rockwool Panel (Seamless)

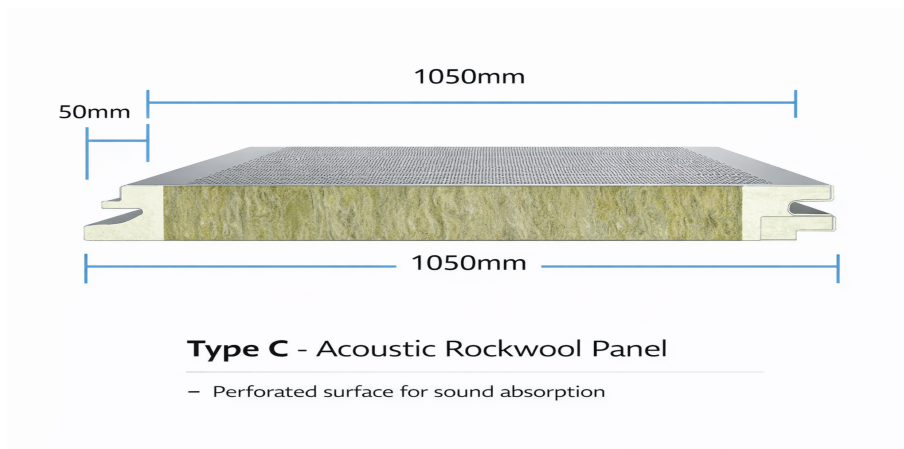


Type B - Rockwool Panel (Seamless)

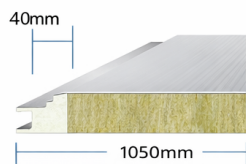
- Flat surface finish

Type B Panel

Type C – Acoustic Rockwool Panel

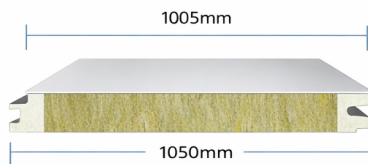


**Type A - Rockwool Panel
(Seamed)**



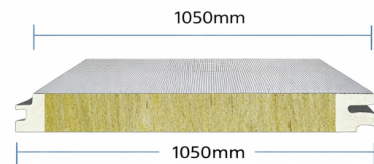
- Concealed joint system
- External wall application
- Balanced performance and installation flexibility

**Type B - Rockwool Panel
(Seamless)**



- Flat surface finish
- Clean architectural appearance
- Suitable for high-end façade systems

Type C - Acoustic Rockwool Panel



- Perforated surface for sound absorption
- Designed for noise-sensitive environments
- Suitable for plant rooms and industrial spaces

Dimensions & Options

- Thickness: 50 / 75 / 100 / 120 / 150 mm
- Panel Width: 650 – 1050 mm
- Effective Width: 600 – 1000 mm