

## PRODUCT SPECIFICATION SHEET

CORE: MINERAL WOOL

EXTERNAL WALLS & FACADES

### MINERAL WOOL CORE

In response to industry demand for a high performance fire resistant panel - ASKIN developed the Mineral Wool core 'Econorock' panel. The Mineral Wool panel is classified as non-combustible and has the added benefit of sound absorption with acoustic ratings. The panel is ideally suited for application involving fire rated partitions, data centres, plant room isolation, and other more extreme environments.

### R VALUES

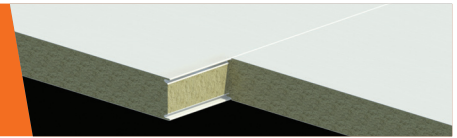
PANEL THICKNESS (mm)	50	75	100	150
Mineral Wool R-Value (m <sup>2</sup> K/W) at 15°Celsius	1.3	1.9	2.6	3.8

Mineral Wool Panel with Air Films (Zones 1-6, wind speed <7m/s)  
NCC Specification J1.2-2, AS 2498.1: 1993

### FIRE PERFORMANCE

Mineral Wool is a non-combustible insulation material ideal for industrial applications with a significant risk of fire such as plant rooms. Mineral Wool panel can provide fire performance in excess of 2 hours.

CRITERIA	PERFORMANCE
AS 1530.3: 1993 (Test for Flammability of materials)	Flame Spread 0      Smoke Dev. 2
AS 1530.4 (FRL)	- / 120 / 120      (150mm Panel) - / 60 / 60      (100mm Panel)
ISO 9705 BCA Classification	Group 1, SMOGRA = 2.2 (m <sup>2</sup> / s <sup>2</sup> x 1000)



### ACOUSTIC

ASKIN® Panel achieves the following ratings for panel tested in accordance with AS 1191-2002 and assessed against AS/NZS ISO 717.1: 2004

PANEL THICKNESS	RW	RW + Ctr
ASKIN Mineral Wool Panel 75mm	25	23

### PHYSICAL PROPERTIES

CRITERIA	PERFORMANCE
Density	100 / 120 kg/m3
Trafficability	Resistant to maintenance traffic (1 person per panel)

### MANUFACTURING TOLERANCES

CRITERIA	MANUFACTURED	TOLERANCE
Length	2,000mm to 13,500mm	+/- 5mm
Width	Standard as 1,200mm	+/- 1mm
Thicknesses	50, 75, 100, 150mm	+/- 1mm

### COLOUR RANGE

A full choice of colours are available subject to Minimum Order Quantities (MOQ) and warranties. Please contact your ASKIN sales representative.

### ENVIRONMENTAL

#### ZERO ODP

Mineral Wool insulation manufacturing does not use Ozone Depleting Substances such as CFCs, HCFCs or HFCs.

#### Resource Efficiency

As an insulation product Mineral Wool is efficient in its use of resources. This, coupled with the high insulation, mean that the energy savings from using Mineral Wool will amount to many of times the energy required to produce the product.

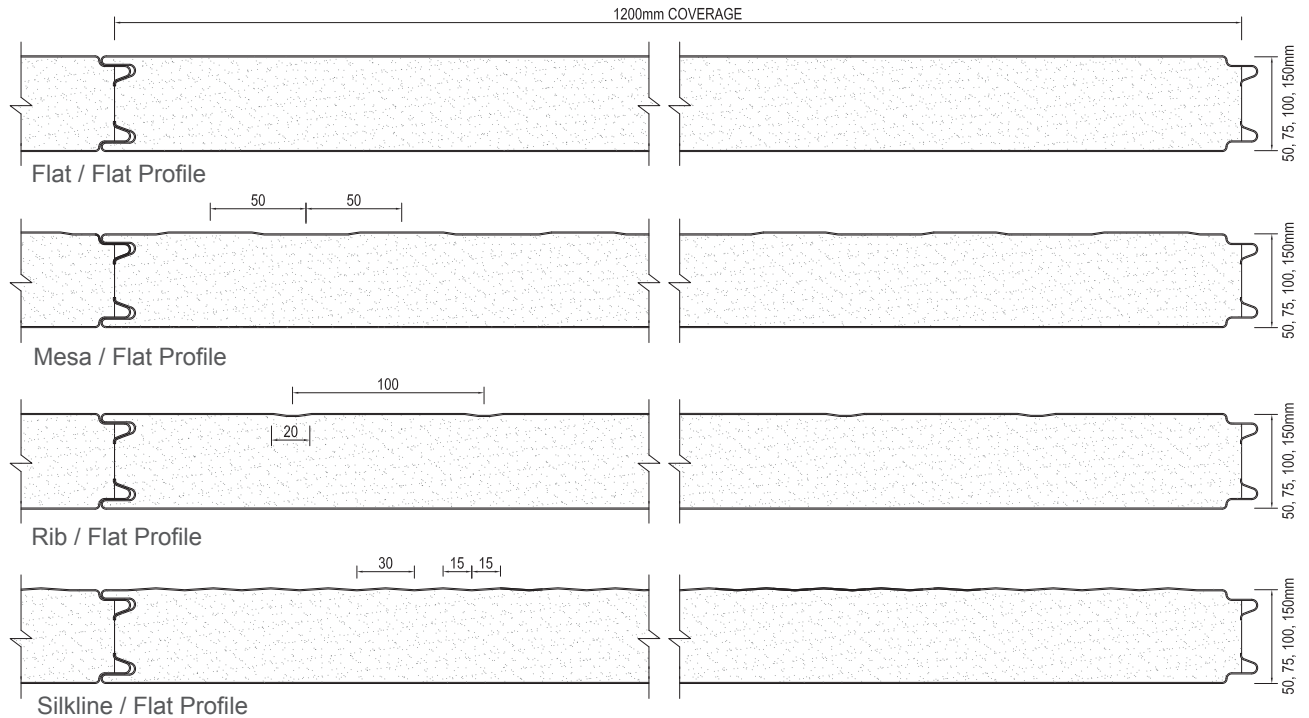
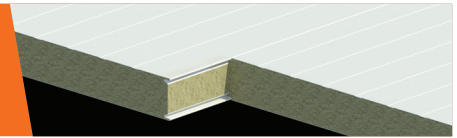
### FEATURES & BENEFITS

- Non-Combustible
- Trafficable with crawlboards
- Fast to install
- 2 Hour FRL's achievable
- Resilient material for a changing climate
- Lengths available up to 13.5m
- Warranties up to 15 years
- Extremely thermally efficient (R Values up to 3.8)
- Moisture Resistant
- Robust and durable building envelope

### EXTERNAL WALL & FACADE PROFILE COMBINATIONS

		EXTERNAL SURFACE PROFILES			
		FLAT	MESA (50mm)	RIB (100mm)	Silkline
INTERNAL SURFACE PROFILES	FLAT	✓	✓	✓	✓
	MESA (50mm)	✓		✓	
	RIB (100mm)	✓		✓	✓
	Silkline	✓	✓	✓	

Note: Other profile combinations available dependant on application.



## 0.6mm EXTERNAL FACE SKIN WITH 0.6mm INTERNAL FACE SKIN

### STANDARD STEEL SPECIFICATION

AS/NZS 2728 Paint Coating

AS 1397 Substrate System

External Skin material – 0.6mm Thick 6300S AM100 high performance steel with pre-painted superior polyester finish coat of 25 microns.

Internal Skin material – 0.6mm Thick 6300S Z275 pre-painted off-white (Permaguard®) steel with superior polyester finish coat of 25 microns and antibacterial protection.

Note: A range of substrates and colours without anti-bacterial protection are available, subject to application and MOQ.



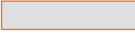
### PANEL WEIGHT

PANEL THICKNESS (mm)	50	75	100	150
Mass (kg / m <sup>2</sup> ) for 0.6 / 0.6	17.1	20.1	23.1	29.1

### PANEL SPAN (m)

Allowable UDL accounting for ULS SLS Span/200 single or multiple span condition (kPa)

PANEL THICKNESS	2.0	2.4	3.0	3.6	4.0	5.0	6.0	7.0	8.0
50mm	1.36	0.94	0.60	0.42	0.34	0.22	0.15	0.11	0.09
75mm	2.11	1.46	0.94	0.65	0.53	0.34	0.23	0.17	0.13
100mm	3.03	2.10	1.35	0.94	0.76	0.48	0.34	0.25	0.19
150mm	5.19	3.61	2.31	1.60	1.30	0.83	0.58	0.42	0.32

	>0.87 kPa Minimum Exterior
	>0.5 Minimum Internal
	<0.5 kPa Special Design

Span data generated in accordance with AS/NZS 1170: 2011  
Based on 5% LPL 80% Confidence

### Disclaimer

Information provided here for design guidance only. Designers are encouraged to seek advice from a suitably qualified professional. All data is subject to change without notice.