



PRODUCT SPECIFICATION SHEET

CORE: VOLCORE INTERNAL WALLS AND CEILINGS

VOLCORE CORE

In response to the industry need for high performance fire resistant panel. ASKIN Volcore is a non combustible material that has been certified to C1.9 (e) as stipulated in C1.1 of the NCC. Volcore Panel is a versatile product that can be used in Type A and B Construction, external walls as well as plant rooms and other fire sensitive applications.

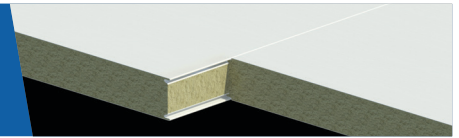
FIRE PERFORMANCE

Volcore is a non-combustible insulation material tested to AS 1530.1 and ideal for industrial applications with a significant risk of fire such as plant rooms. Volcore panel can provide fire resistance levels in excess of 2 hours.

CRITERIA	PERFORMANCE
AS 1530.3: 1993 (Test for Flammability of materials)	Flame Spread 0 Smoke Dev. 1 Heat evolved 0 Ignition 0
C1.1 Fire Resisting Construction	- / 120 / 120 (150mm Panel)
AS 1530.4 (FRL)	- / 60 / 60 (100mm Panel)
C3.15 Penetrations of Walls, Floors and Ceilings by services.	- / 180 / 180 (Penetrations) - / 120 / 30 (Fire Doors)
Compliance to C1.10 - AS5637.1 AS ISO 9705:2003	Group 1, SMOGRA = 0 (m ² / s ² x 1000)
NCC compliant C1.9e	Non-Combustible

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R VALUES

PANEL THICKNESS (mm)	50	75	100	120	150
Volcore R-Value (m ² K/W) at 15°Celsius	1.3	1.9	2.6	3.1	3.8

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

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 Volcore Panel 75mm	28	25
ASKIN Volcore Panel 100mm	29	
ASKIN Volcore Panel 120mm	30	
ASKIN Volcore Panel 150mm	31	

PHYSICAL PROPERTIES

CRITERIA	PERFORMANCE
Density	100 / 120 kg/m ³
Trafficability	Resistant to maintenance traffic with crawl boards

MANUFACTURING TOLERANCES

CRITERIA	MANUFACTURED	TOLERANCE
Length	2,000mm to 13,500mm	+/- 5mm
Width	1,000mm / 1200mm. Dependant on location and MOQ.	+/- 2mm
Thicknesses	50, 75, 100, 120, 150mm	+/- 2mm

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

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

Resource Efficiency

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

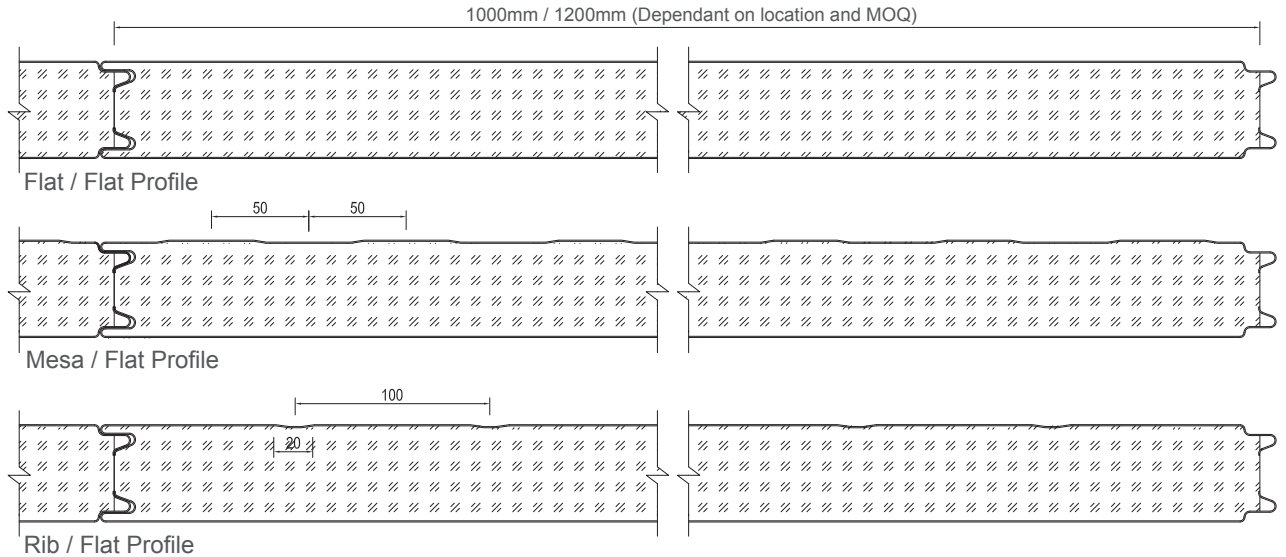
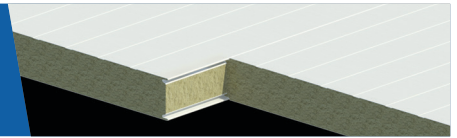
FEATURES & BENEFITS

- Non-Combustible
- Trafficable with crawlboards
- Fast to install
- 2 Hour FRL's available
- Robust and durable building envelope
- Lengths available up to 13.5m
- Warranties of 10+ years
- Extremely thermally efficient (R Values up to 3.8)
- Insurer approved
- Resilient material for a changing climate

Interiors

ASKIN™

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INTERNAL WALL AND CEILING PROFILE COMBINATIONS

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

Note: Other profile combinations available dependent 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 & Internal Skin materials – 0.6mm Thick G300S Z275 pre-painted off-white (Permagard®) 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	120	150
Mass (kg / m ²) for 0.6 / 0.6	15.4	18.2	20.9	23.1	26.4

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
50mm	1.36	0.94	0.60	0.42	0.34	0.22	0.15
75mm	2.11	1.46	0.94	0.65	0.53	0.34	0.23
100mm	3.03	2.10	1.35	0.94	0.76	0.48	0.34
120mm	3.90	2.70	1.73	1.20	0.98	0.62	0.44
150mm	5.19	3.61	2.31	1.60	1.30	0.83	0.58

- >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.

Interiors

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