ASKIN

nismo

# PRODUCT SPECIFICATION SHEET CORE: VOLCORE INTERNAL WALLS AND CEILINGS

## VOLCORE CORE

ACK DANIELS

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 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	- / 180 / 180 (Penetrations)
services.	- / 120 / 30 (Fire Doors)
Compliance to C1.10 - AS5637.1	Group 1, SMOGRA = 0 (m <sup>2</sup> / s <sup>2</sup> x 1000)
AS ISO 9705:2003	
NCC compliant C1.9e	Non-Combustible

AUSTRALIAN OWNED & MADE

ISO 9001

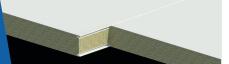
Colerbond

Permanard

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# PRODUCT SPECIFICATION SHEET CORE: VOLCORE INTERIORS



## R VALUES /

PANEL THICKNESS (mm)	50	75	100	120	150
Volcore R-Value (m² K/W) at 15°Celcius	1.3	1.9	2.6	3.1	3.8

## ACOUSTIC /

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

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/m3
Trafficability	Resistant to maintenance traffic ith crawl boards

## MANUFACTURING TOLERANCES /

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

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# PRODUCT SPECIFICATION SHEET CORE: VOLCORE INTERIORS



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Rib / Flat Profile

### 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 / m²) for 0.6 / 0.6	15.4	18.2	20.9	23.1	26.4

## PANEL SPAN (m) Allowable UDL accounti PANEL THICKNESS

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	Span data g	generate					70: 2011 onfidence

>0.5 Minimum Internal

<0.5 kPa Special Design

### 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. Page 3 of 3