



**VIVID**

**ASKIN™**

**PRODUCT SPECIFICATION SHEET**

**CORE: VOLCORE ASKIN 'VIVID SERIES'**

**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.

The Volcore External Wall system has been tested for thermal performance, weatherproofing, fire, wind loadings and fire resistance levels (FRL).

**R VALUES**

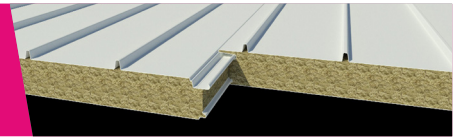
PANEL THICKNESS (mm)	50	75	100	120	150
Volcore R-Value (m <sup>2</sup> K/W) at 15°Celsius	1.2	1.9	2.6	3.1	3.8

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

**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 external walls and facades. Total compliance for Type A & B construction.

CRITERIA	PERFORMANCE
AS 1530.3: 1993 (Test for Flammability of materials)	Flame Spread 0    Smoke Dev. 2 Ignitability 0    Heat Evolved 0
Compliance to C1.10 - AS5637.1 AS ISO 9705:2003	Group 1, SMOGRA = 0 (m <sup>2</sup> / s <sup>2</sup> x 1000)
NCC compliant C1.9e	Non-Combustible
Compliant to FP1.4 and FP1.5 Weatherproofing	AS 4284 Water Ingress Test - Pass



**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/m3
Trafficability	Resistant to maintenance traffic with crawl boards

**MANUFACTURING TOLERANCES**

CRITERIA	MANUFACTURED	TOLERANCE
Length	2,000mm to 11,500mm	+/- 5mm
Width	1,000mm	+/- 2mm
Thicknesses	50, 75, 100, 120, 150mm	+/- 2mm

**COLOUR RANGE**

A full range of colours are available depending on Minimum Order Quantities and warranties. Please contact your ASKIN representative as each project needs clarification on Solar Absorbance as stated in the NCC.

**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. Coupled with the high insulation, this means that the energy savings from using Volcore will amount to many of times the energy required to produce the product.

**INSTALLATION NOTES**

Though predominantly installed horizontally, ASKIN 'Vivid Series' can also be installed vertically or diagonally for aesthetic or practical reasons. Long panels or panels passing structural elements can be butt jointed with negative detail top hat sections.

ASKIN 'Vivid Series' can be fastened with a range of hardware available from ASKIN, including buytl sealants, tek screws, threaded rods, dome nut bolts, coach screws, suspension brackets and spring fixings.

**INSTALLATION TOLERANCES**

MANUFACTURED LENGTH	INSTALLATION TOLERANCE
0mm to 4,000mm	+2 / -1mm
+4,000mm	+3/ -1mm

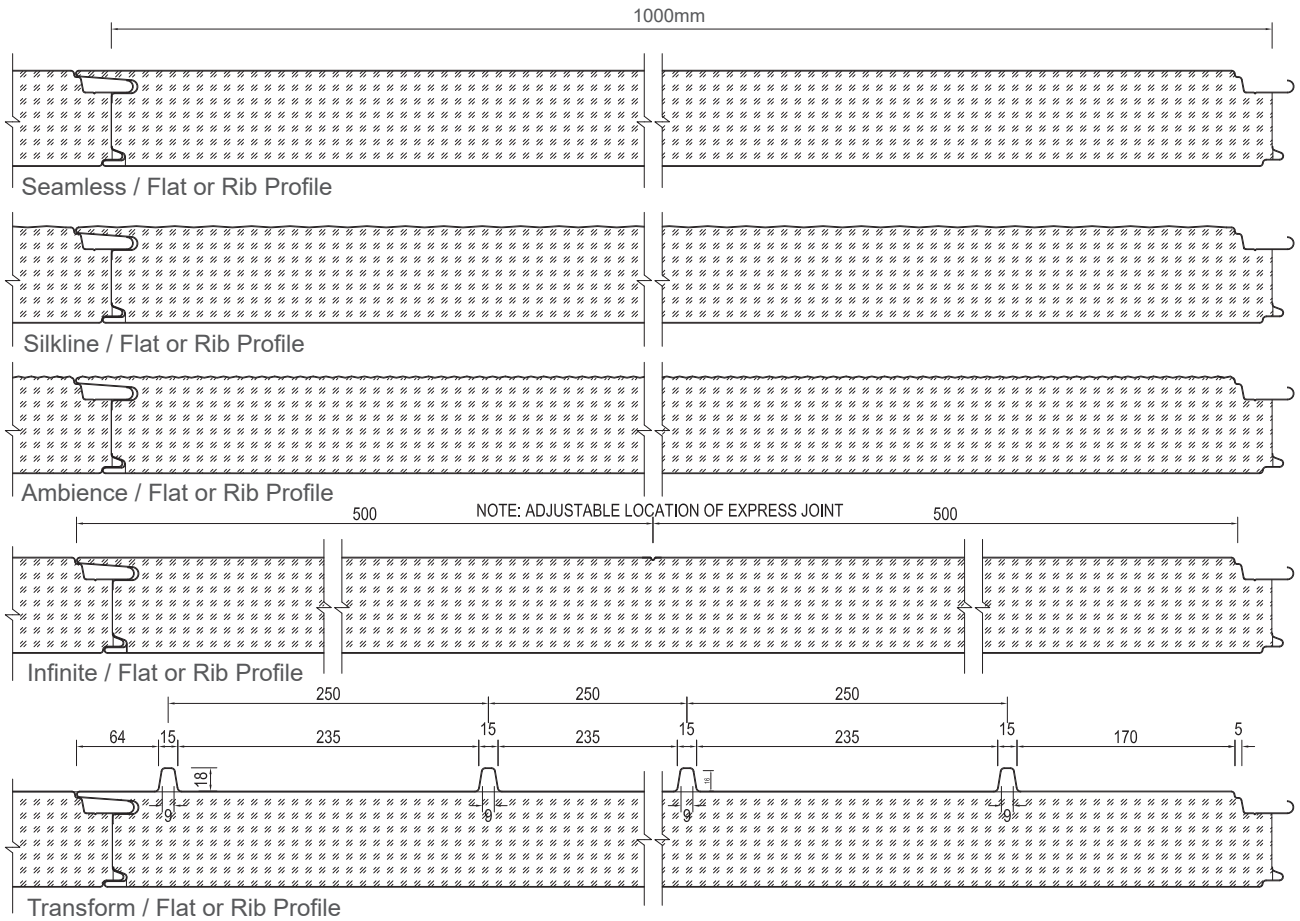
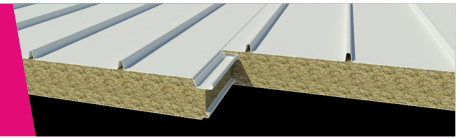
**FEATURES & BENEFITS**

- C1.9e Non-Combustible
- Warranties up to 15 years
- Fast to install
- Moisture Resistant
- Lengths available up to 11.5m
- Robust and durable building envelope
- Extremely thermally efficient (R Values up to 3.8)
- Resilient material for a changing climate



**PRODUCT SPECIFICATION SHEET**

**CORE: VOLCORE 'Vivid SERIES'**



**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 G300S AM100 high performance steel with pre-painted superior polyester finish coat of 25 microns.

Internal Skin material – 0.6mm Thick G300S Z275 pre-painted off-white (Permaguard®) steel with superior polyester finish coat of 25 microns and antibacterial protection.

**PANEL WEIGHT**

PANEL THICKNESS (mm)	50	75	100	120	150
Mass (kg / m <sup>2</sup> ) for 0.6 / 0.6	16.0	18.7	21.4	23.6	26.9

**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	1.19	0.82	0.53	0.36	0.30		
75mm	2.11	1.46	0.94	0.65	0.53	0.34	
100mm	3.03	2.10	1.35	0.94	0.76	0.48	0.34
120mm	3.89	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.

