



PRODUCT SPECIFICATION SHEET

CORE: XFLAM ASKIN 'Vivid SERIES'

XFLAM CORE

XFLAM is a cellular foam product which uses natural air filled cells to deliver exceptional thermal resistance. The use of air enhances safety and security due to the absence of alternative types of gas for insulation. This ensures the thermal performance of XFLAM remains constant throughout its service life. The XFLAM Vivid External Wall system has been tested for thermal performance, weatherproofing, fire, wind loadings and fire resistance levels (FRL).

THERMAL PERFORMANCE

XFLAM Panel has the ability to resist transfer of heat making it significant to the thermal performance of a buildings envelope. The easy to seal slip-joint between panels facilitates efficient, sealed construction. This controls the air flow in and out of a building enabling efficient heating and cooling of the internal environment.

R-VALUES

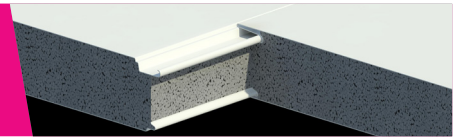
PANEL THICKNESS (mm)	50	85	100	120	150
XFLAM R-Value (m ² K/W) at 15°Celsius	1.72	2.85	3.30	3.93	4.84

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

FIRE PERFORMANCE

XFLAM panel is a safe material in a fire situation, has very low smoke generation. XFLAM panel holds best in class FM Approvals for Internal Walls and Ceilings, External Walls and Roofing in addition to BCA Group 1 materials classification, as tested in accordance with ISO 9705. Additionally XFLAM panel holds various Australian Standards approvals for fire rated walls and ceilings.

CRITERIA	PERFORMANCE
AS 1530.3: 1993 (Test for Flammability of materials) Compliance to C1.10 - AS5637.1 AS ISO 9705:2003	Flame Spread 0 Ignitability 0 Heat evolved 0 Smoke Dev. 1 Group 1, SMOGRA = 2.2 (m ² / s ² x 1000)
CP4 requires materials and assemblies to resist spread of fire and limit the generation of smoke and toxic gases during evacuation	Toxicity (Combustion gases) - Very Low (CO, CO ₂)
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 XFLAM Panel 75mm	25	23

PHYSICAL PROPERTIES

CRITERIA	PERFORMANCE
Density	32 kg/m3
Recyclable	100% Recyclable
Workability	Excellent. No requirement for protection
Trafficability (As per NCC / BCA)	Resistant to maintenance traffic (1 person per panel)
Peel Strength ASTM D1976 - Initial	1.27 N/mm

MANUFACTURING TOLERANCES

CRITERIA	MANUFACTURED	TOLERANCE
Length	1,500mm to 13,800mm	+/- 5mm
Width	Standard as 1,000mm	+/- 1mm
Thickness's	50mm up to maximum 150mm	+/- 1mm

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

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

Resource Efficiency

As a low density insulation product XFLAM uses very little natural resources by volume to manufacture. This, coupled with the high insulation performance, means that the energy savings from using XFLAM will amount to hundreds 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 butyl sealants, tek screws, threaded rods, dome nut bolts, coach screws, suspension brackets and spring fixings.

INSTALLATION TOLERANCES

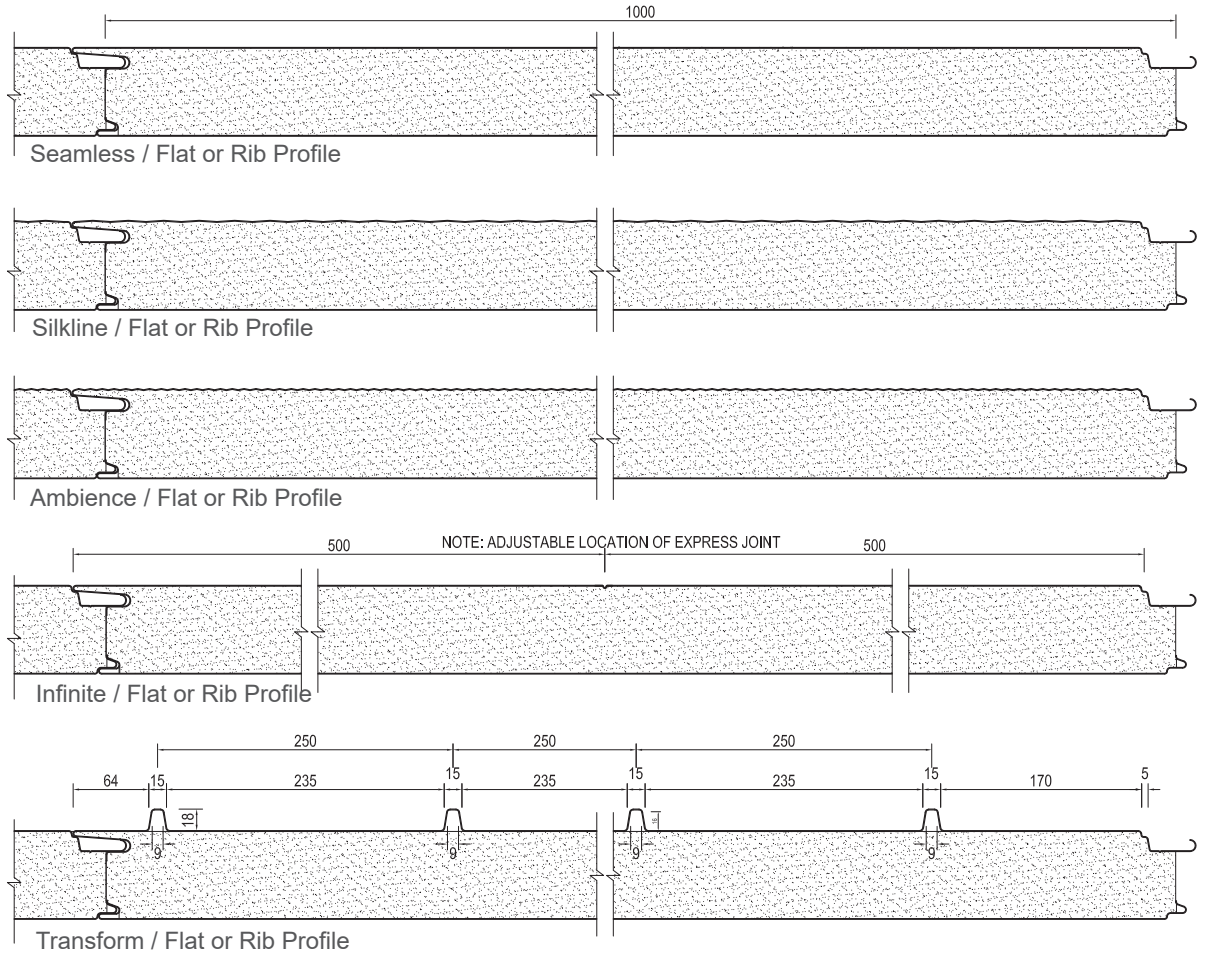
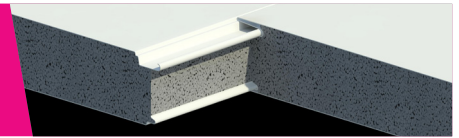
MANUFACTURED LENGTH	INSTALLATION TOLERANCE
0mm to 4,000mm	+2 / -1mm
+4,000mm	+3/ -1mm

* ASKIN recommend the use of clamps for ensuring minimum variable tolerance.

FEATURES & BENEFITS

- Clean architectural finish
- Designer Range of Colours
- Warranties of 15+ years available
- Extremely thermally efficient (R Values up to 8+)
- Secret Fix System
- Long lengths available up to 13.8m
- Metallic, Matt and Printed Skins available
- Fast to install
- Superior spanning capability
- Drained cavity joint





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	85	100	120	150
Mass (kg / m ²) for 0.6 / 0.6	12.1	13.3	13.8	14.5	15.5

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	1.90	1.32	0.84	0.59	0.47	0.30	0.21
85mm	2.93	2.03	1.30	0.90	0.73	0.47	0.33
100mm	3.90	2.71	1.73	1.20	0.98	0.62	0.43
120mm	4.68	3.25	2.08	1.44	1.17	0.75	0.52
150mm	5.85	4.06	2.60	1.81	1.46	0.94	0.65

- >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