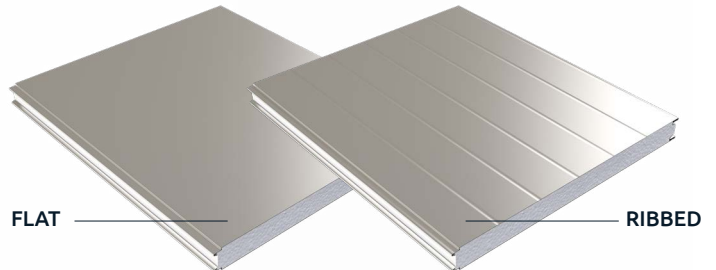# FlushLINE EPS-FR

WALLS & CEILINGS

PRODUCT DESCRIPTION

Arctic Flushline FR-EPS panel is a sandwiched insulated panel with a Self Extinguishing (FR) Expanded Polystyrene (EPS) foam between sheets of pre-painted galvanised steel skins. All panels comply with high standards, certified by Insulated Panel Council Australasia (IPAC).
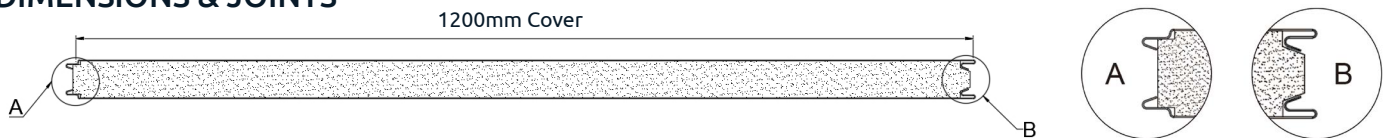
Panel skins are 0.6mm thick G300S Z275 steel coated with anti-bacterial paint – proven to inhibit the growth of surface bacteria that causes odours, food poisoning, allergies and staining.

ALL Panels have an interlocking roll-formed tongue and groove edge for easy join and installation.

PROFILES

FLAT ———

RIBBED

DIMENSIONS & JOINTS

1200mm Cover

A

B

A

B

FEATURES & BENEFITS

- Fire retardant
- Resistance to moisture
- Anti-bacterial skins
- Cost-efficiency
- Good strength-to-weight ratio
- Long spanning capability
- Excellent thermal insulation (high R values)
- Lifetime durability
- Recyclable and reuseable
- Proven acoustic insulation

APPLICATIONS

- Cool rooms and freezers
- Industrial and commercial storage
- Pharmaceuticals and laboratories
- Site office and accommodation rooms
- Portable buildings
- Home extensions
- Temperature controlled environments
- High-tech clean rooms

FIRE TEST CERTIFICATE

Arctic FR-EPS Panels satisfied the criteria given by NCC and were classified as Group 1 Materials in AS 5637.1 as per BRANZ Certificate No 374 ISSUE 2 and Fire Assessment Report 2489 ISSUE 3.

PANEL SPECIFICATIONS

Steel Skins	0.6mm Thick G300 Z275	
Core Material	AS1366.3 1992 SL Grade EPS	
Adhesive	Two parts heat polymerising adhesive	
Max. Skin Temperature	75ºC	
Core Density	FR-EPS: 14kg/m3	
0.6mm skin Panel Weight (kg/m2)	50mm	10.6
	75mm	11.0
	100mm	11.2
	125mm	11.8
	150mm	12.3
	175mm	12.8
	200mm	13.4
Thermal Conductivity	0.037W/mK @22.5ºC (AS 1366.2)	
R Value (m2K/W) @22.5ºC	50mm	1.42
	75mm	2.03
	100mm	2.64
	125mm	3.25
	150mm	3.86
	175mm	4.47
	200mm	5.08
	250mm	6.30
Sheet Coverage (mm)	1200	
Length (mm)	Cut to length	
Length Tolerance	± 5mm	
Thickness (mm)	50, 75, 100, 125, 150, 175, 200, 225, 250	

For further information, please contact Arctic Technical Services:
CALL (08) 8900 8533 or EMAIL info@arcticinsulatedpanels.au   arcticinsulatedpanels.au

ARCTIC
INSULATED PANELS

FlushLINE EPS-FR WALLS & CEILINGS

SPAN TABLE

ALLOWABLE SPANS FLUSHLINE FR-EPS PANEL - 0.6MM THICK STEEL SKIN			
Panel Thinkness (mm)	Wall(m)		Ceilings (m)
	Coolroom	Freezer	
50	5.1	-	3.5
75	5.5	-	5.1
100	8.0	6.5	5.8
150	9.5	8.5	7.1
200	10.6	9.6	8.0
250	12.0	10.5	9.0

Notes:
1. A deflection limit of span/150 has been used for horizontal and vertical load-deflection calculation, according to AS1170.0-Table C1 Serviceability Limit State Criteria.
2. Panel spans do not include foot traffic, wind, snow, cyclone or any other loading.

SERVICEABILITY LIMIT STATE WIND PRESSURE (KPA) - 0.6MM FR-EPS PANEL										
	Span (m)									
Thinkness (mm)	2.0	2.4	3.0	3.6	4.0	5.0	6.0	7.0	8.0	9.0
50	1.8	1.3	0.9	0.7	0.5	0.4	-	-	-	-
75	2.9	2.3	1.8	1.4	1.0	0.7	0.5	-	-	-
100	5.8	5.0	3.5	2.4	2.1	1.4	0.9	-	-	-
150	7.2	6.0	4.6	3.5	2.8	1.9	1.2	0.9	0.7	-
200	8.8	7.6	5.8	4.5	3.6	2.7	1.7	1.3	1.0	0.8

Note:
1. A deflection limit of span/150 has been used for horizontal and vertical load-deflection calculation, according to AS1170.0-Table C1 Serviceability Limit State Criteria, single span.

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