

Apollo Insulated Roofing - Trimlink Profile - Non-Cyclonic

PRODUCT DESCRIPTION

Apollo Patios insulated roofing is a long-spanning commercial and residential insulated roof panel system that combines roofing, EPS-FR insulation and a pre-painted ceiling in one durable, functional and attractive roof panel. This all-in-one roofing solution is manufactured using Australian-made Unicote steel for durability and is installed in a variety of applications including educational facilities, multi-residential housing and retail facilities.

TECHNICAL DATA

Thickness (mm)	50	75	100	125	150	200
Weight (kg/m ²)	10.58	10.94	11.37	11.80	12.23	12.50
R Value 8°C m ² K/W	1.61	2.26	2.66	3.25	3.94	4.58
R Value 20°C m ² K/W	1.59	2.22	2.59	3.17	3.75	4.05

Minimum Pitch 2°

Panel Size	Apollo Trimlink Panel Span				Over hang	Tek Screw Size mm	
	A	B	C	D		Steel Fixing	Timber Fixing
50	5300	5200	4900	4300	1100	125	125 - T17
75	6500	6000	5600	5000	1200	150	150 - T17
100	7400	6700	6200	5400	1300	175	175 - T17
125	8100	7550	7100	6050	1350	205	200 - T17
150	8800	8400	8000	6700	1350	230	250 - T17
200	10000	9900	9200	7600	1500	300	265 - T17

Panel Size	Apollo Trimlink Panel Span				Over hang	Tek Screw Size mm	
	A	B	C	D		Steel Fixing	Timber Fixing
50	5000	3900	3500	3500	1100	125	125 - T17
75	5900	4800	4100	4000	1200	150	150 - T17
100	6500	5500	4500	4400	1300	175	175 - T17
125	7400	6150	5150	4700	1350	205	200 - T17
150	8300	6800	5800	5000	1350	230	250 - T17
200	9700	7800	6800	5300	1400	300	265 - T17

Panel Size	Apollo Trimlink Panel Span				Over hang	Tek Screw Size mm	
	A	B	C	D		Steel Fixing	Timber Fixing
50	4200	3200	2900	2700	1100	125	125 - T17
75	4900	3900	3500	3300	1200	150	150 - T17
100	5400	4400	3900	3600	1300	175	175 - T17
125	6000	4800	4150	3800	1350	205	200 - T17
150	6600	5200	4400	4000	1350	230	250 - T17
200	7500	5700	4700	4200	1400	300	265 - T17

Overhang NOT to Exceed 25% of Immediate Back Span

A - 3 Sides Open & Freestanding	B - 2 Sides Open
C - 1 Side Open	D - Fully Enclosed

ROOF PANEL SPECIFICATIONS				
CORE AS 1366 PART 3 1992	"K" VALUE CORE	MAX SKIN TEMP	ADHESIVE	FINISH
SL Grade Polystyrene 13.5 Kg/m ²	0.037	78°C Dry Heat Sustained	Thermosetting two part Polyurethane CFC Free	Plain face

ROOF PANEL SKIN DETAILS			
Finish	Thickness	Substrate	Gloss Level
Upper Skin	0.42 mm (BMT)	AZ150 G550	25%
Lower Skin	0.60 mm (BMT)	AZ150 G300	25%

Core	EPS-FR(Expanded Polystyrene with fire retardant)
Width (cover mm)	1000
Thickness (mm)	50, 75, 100, 125, 150, 200
Length to order	2m to 12,5m (check for availability)
External Material	0.42mm G550 Unicote pre-painted steel
External Finishes	High-Rib Trapezoidal Profile
Exterior Colour Options	Armour Grey, Birch, Basal, Caulfield Green, Gull Grey, Heritage Red, Iron Grey, Jasmine Brown, Merino, Mist Green, Monolith, Mountain Blue, Off White, Slate Grey, Smooth Cream, Hamptons White, Wallaroo, Aluzinc
Unicote Colour References	
Internal Material	0.6mm G300 UniCote pre-painted steel
Internal Finishes	Plain
Interior Colour Options	Underside - Off White, Smooth Cream, Hamptons White, Ashwood, Maple
Pitch	2 degree minimum
Paint System	AS/NZS 2728 & AS 1397 Foam Grey Primer
Acoustic Properties	Rw 24 - 25 depending on thickness
Material Group Numbers	C1.10 Group 1 & 2
Bushfire Attack level	BAL-40 (All exposed core to be covered with flashing)
Fire hazard properties	AS/NZS 1530.3:1999
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	5
SMOGR _{RC}	< 100

AS/ISO 9705 - BCA Group Number (Spec C1.10)
EPS-FR steel skinned insulated building panels conform to the requirements of the BCA Specification C1.10 as Group 1 depending on the thickness and construction detail.

Group 1
Panel up to 200mm thick with steel 'wall-wall' and 'wall-ceiling' angles fixed with steel rivets or screws at maximum 300mm centres is classified as Group 1.

NOTES:

- Extended span tables including A, B, C & D. Refer to Apollo Engineering Manual.
- Fixing with 14g Tek/T17 screws with Multiseal/cyclone washer - 4 per sheet per fixing point are required (see Apollo Insulated Screw Fixing Guide for exact details).
- Pressures specified are for wind gusts only per AS 1170.
- Deflection limit of span/150 applies, and in accordance with Serviceability Limit State criteria per AS1170.0 - TABLE C1.
- Self weight of the panel has been allowed for, plus an allowance of max 25kg/m² uniformly distributed dead loads (e.g. lights, fans, solar panels, etc.).
- Non-trafficable maintenance access (concentrated load) of 140kg (exceeding min. requirements of AS/NZS 1170.1:2002) on any one panel has been allowed for.
- Distributed live load of 0.25kPa (as per AS/NZS 1170.1:2002) has been allowed for.
- Min. roof slope of 2 degree applies.
- Generic engineering certification of the Apollo Patio System is available for residential patios.

