

Apollo Insulated Roofing - Trimlink Profile - 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°

EARLY FIRE HAZARD (AS 1530.3:1999)		
INDEX	Test Range	External Top Skin
IGNITABILITY	0-20	0
SPREAD OF FLAME	0-10	0
HEAT EVOLVED	0-10	0
SMOKE DEVELOPED	0-10	5

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, Territory, Wallaroo, Aluzinc
Unicote Colour References	
Internal Material	0.6mm G300 Cologuard 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

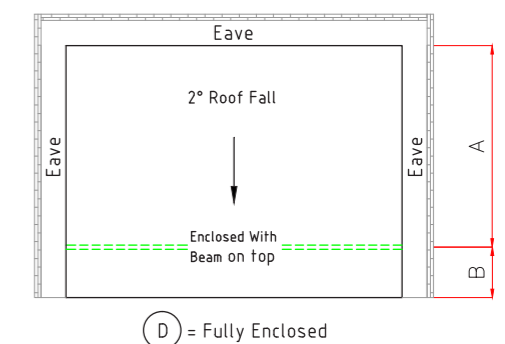
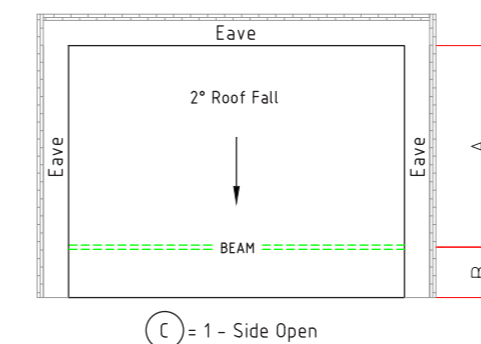
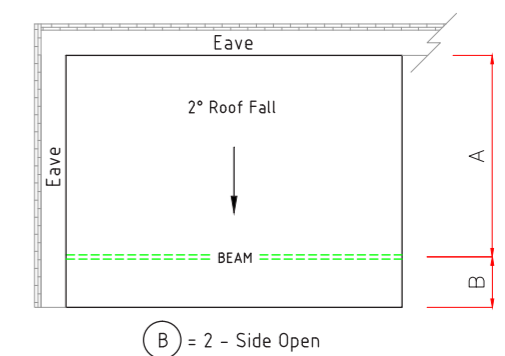
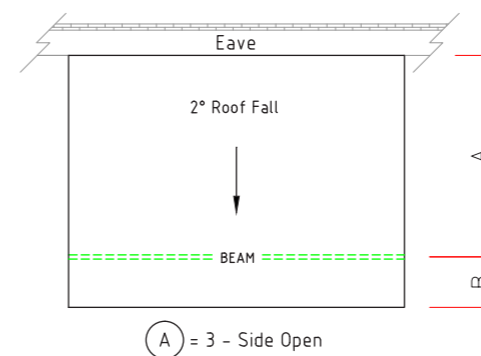
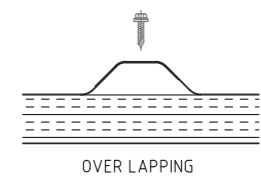
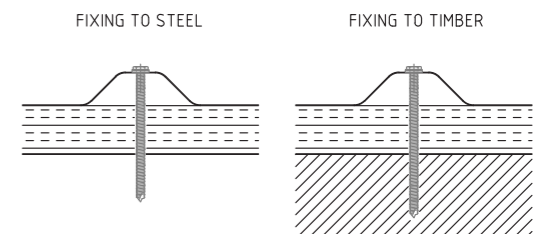
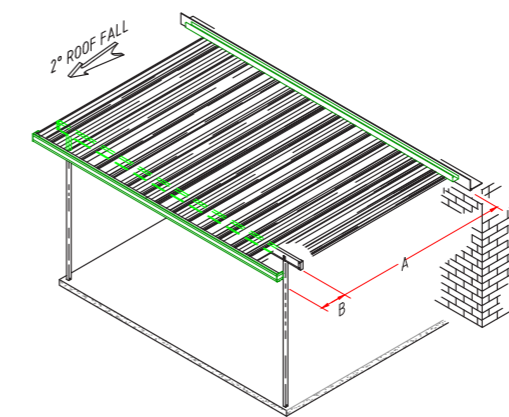
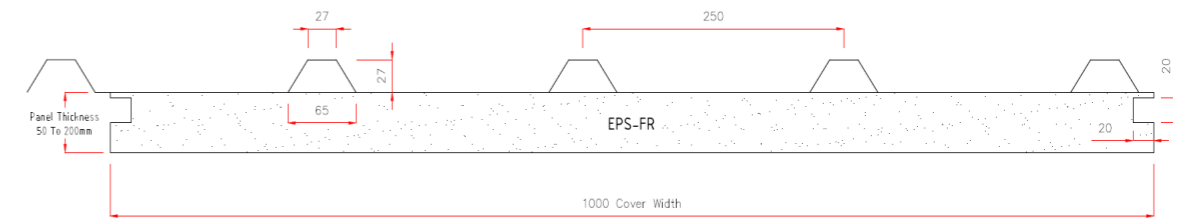
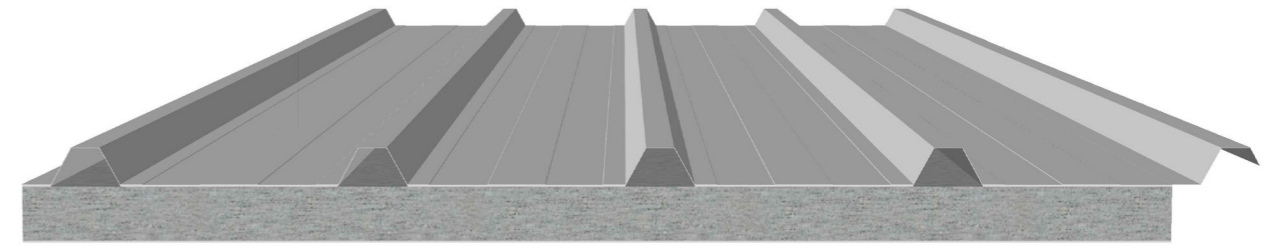
AS/ISO 9705 - BCA Group Number (Spec C1.10)
 EPS-FR steel skinned insulated building panels conform to the requirements of the BCA Specification C1.10 as Group 1 depending on the thickness and construction detail.

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.



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SINGLE SPAN, CYCLONIC SPAN TABLES

C1	Panel Size	Apollo Trimlink Panel Span				Freestanding	Overhang
		A	B	C	D		
	50	4600	3500	3200	2900	4600	1100
	75	5300	4100	3700	3400	5300	1200
	100	6000	4600	4200	3900	6000	1300
	125	6600	5100	4700	4300	6600	1350
	150	7200	5600	5100	4600	7200	1350

C2	Panel Size	Apollo Trimlink Panel Span				Freestanding	Overhang
		A	B	C	D		
	50	3700	2900	2500	2100	3700	1100
	75	4300	3400	3000	2500	4300	1200
	100	4900	3800	3500	3100	4900	1300
	125	5400	4200	3800	3400	5400	1350
	150	5900	4500	4100	3800	5900	1350

C3	Panel Size	Apollo Trimlink Panel Span				Freestanding	Overhang
		A	B	C	D		
	50	3100	2000	1700	NA	3100	1100
	75	3600	2400	2000	1700	3600	1200
	100	4000	3100	2600	2100	4000	1300
	125	4500	3400	2800	2300	4500	1350
	150	4800	3700	3300	2800	4800	1350

C4	Panel Size	Apollo Trimlink Panel Span				Freestanding	Overhang
		A	B	C	D		
	50	2500	1500	NA	NA	2500	1100
	75	3000	1800	1500	NA	3000	1200
	100	3500	2300	1900	1600	3500	1300
	125	3800	2500	2100	1700	3800	1350
	150	4200	3000	2500	2000	4200	1350

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

DOUBLE SPAN, CYCLONIC SPAN TABLES

C1	Panel Size	Apollo Trimlink Panel Span				Freestanding	Overhang
		A	B	C	D		
	50	4600	2900	2400	2000	4600	1100
	75	5300	3200	2700	2200	5300	1200
	100	6000	3900	3200	2700	6000	1300
	125	6500	3900	3200	2700	6500	1350
	150	7200	4300	3600	3000	7200	1350

C2	Panel Size	Apollo Trimlink Panel Span				Freestanding	Overhang
		A	B	C	D		
	50	3300	1900	1600	NA	3300	1100
	75	3600	2100	1800	1500	3600	1200
	100	4300	2600	2100	1800	4300	1300
	125	4400	2600	2200	1800	4400	1350
	150	4900	2900	2400	2000	4900	1350

C3	Panel Size	Apollo Trimlink Panel Span				Freestanding	Overhang
		A	B	C	D		
	50	2200	NA	NA	NA	2200	1100
	75	2400	NA	NA	NA	2400	1200
	100	2900	1700	NA	NA	2900	1300
	125	2900	1700	NA	NA	2900	1350
	150	3300	1900	1600	NA	3300	1350

C4	Panel Size	Apollo Trimlink Panel Span				Freestanding	Overhang
		A	B	C	D		
	50	1600	NA	NA	NA	1600	1100
	75	1800	NA	NA	NA	1800	1200
	100	2200	NA	NA	NA	2200	1300
	125	2200	NA	NA	NA	2200	1350
	150	2400	NA	NA	NA	2400	1350

NA denotes a span that is lower than 1500mm

Overhang NOT to Exceed 25% of Immediate Back Span