

Technical Data Sheet

Version 6 (6th Nov 2019)

Product Description

Apollo insulated roofing is manufactured using EPS-FR core which facilitates the advantage of having a pre-finished high span elegant long-lasting fire retardant panel for application in both commercial and domestic domains. It's functionality, quality and durability are guaranteed by using only the best available components, strict quality control and total attention to detail during the manufacturing process.

TECHNICAL DATA

Thickness (mm)	50	75	100	125	150	200
Weight (kg/m ²)	10.85	11.21	11.65	12.08	12.51	12.96
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 5°

EARLY FIRE HAZARD (AS 1530.3/89)

INDEX	Test Range	External Top Skin	Exposed Core
IGNITABILITY	0-20	0	12
SPREAD OF FLAME	0-10	0	9
HEAT EVOLVED	0-10	0	7
SMOKE DEVELOPED	0-10	1	7

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 12m (check for availability)
External Material	0.42mm G550 Cologuard pre-painted steel
External Finishes	High-Rib Trapezoidal Profile
Exterior Colour Options	Mountain Blue, Smooth Cream, Gull Grey, Merino, Heritage Red, Mist Green, Armour Grey, Jasmin, Basal, Iron Grey, Slate Grey, Territory, Monolith, Aluzinc, Birch, Off White
Internal Material	0.6mm G300 Cologuard pre-painted steel
Internal Finishes	Plain
Interior Colour Options	Underside - Off White/Cream
Pitch	5 degree minimum, refer Apollo Patio Roofing
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 (Flashing to cover exposed core)
Fire hazard properties	AS/NZS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	2-3
SMOGR _{ARC}	< 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 250mm 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. Refer Apollo.
- Fixing with 14g tek screws (or equivalent) at each rib are required.
- 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 1170.1:2001) has been allowed for.
- Min. roof slope of 2 degree applies.
- Generic engineering certification of the Apollo Patio System is available.

Apollo Patios – Insulated Corrugated Profile

