

Apollo Insulated Roofing - Trimlink Profile - Cyclonic

PRODUCT DESCRIPTION

Apollo 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, Ebony, Gull Grey, Hamptons White, Heritage Red, Iron Grey, Jasmine Brown, Merino, Mist Green, Monolith, Mountain Blue, Off White, Slate Grey, Smooth Cream, Stony Brook, 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 |

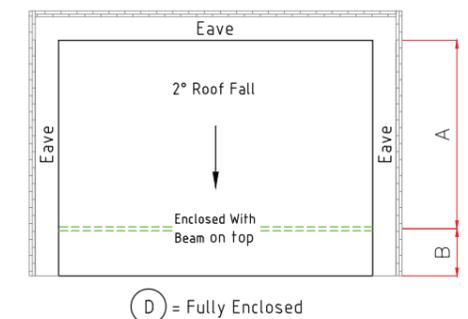
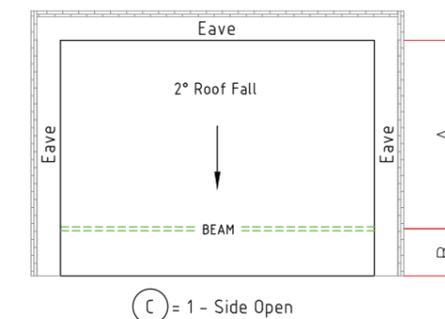
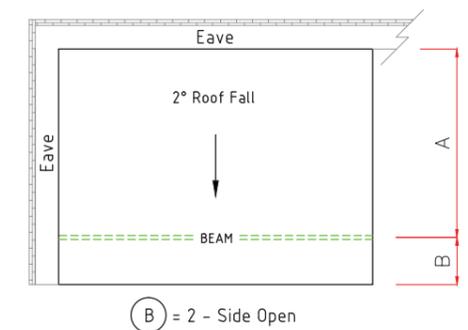
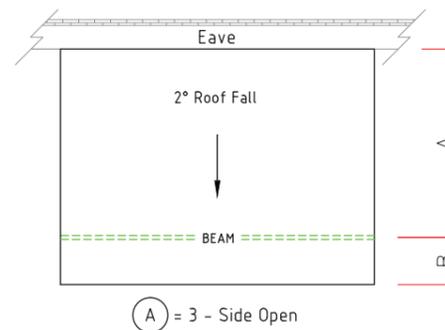
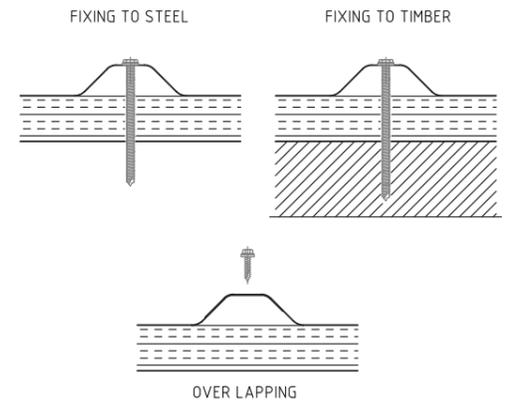
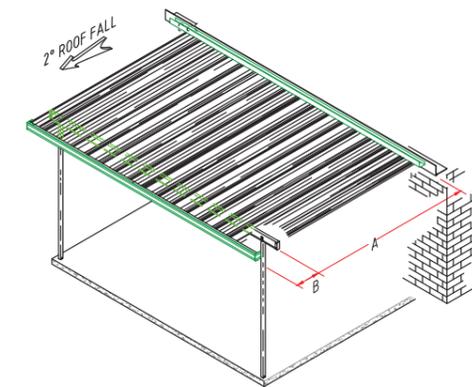
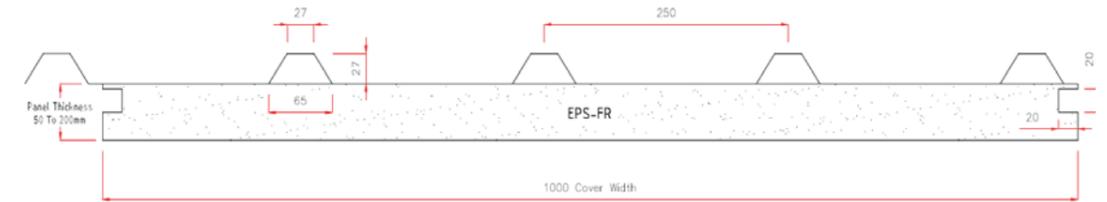
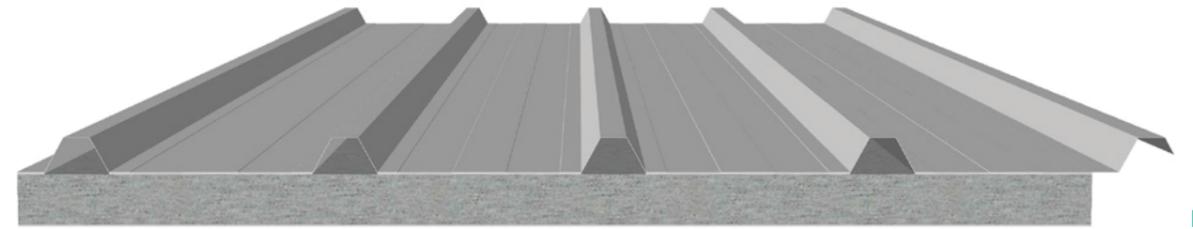
AS/ISO 9705 - BCA Group Number (Spec C1.10)
EPS-FR steel skinned insulated building panels conform to the requirements of the BCA Specification C1.10 as Group 1 depending on the thickness and construction detail.

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.



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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