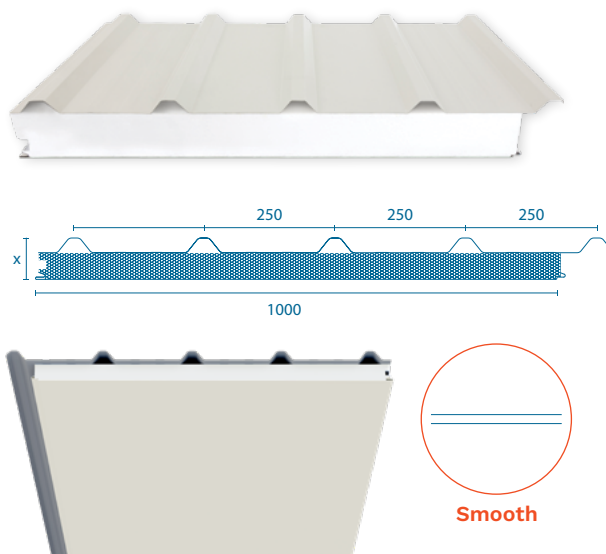


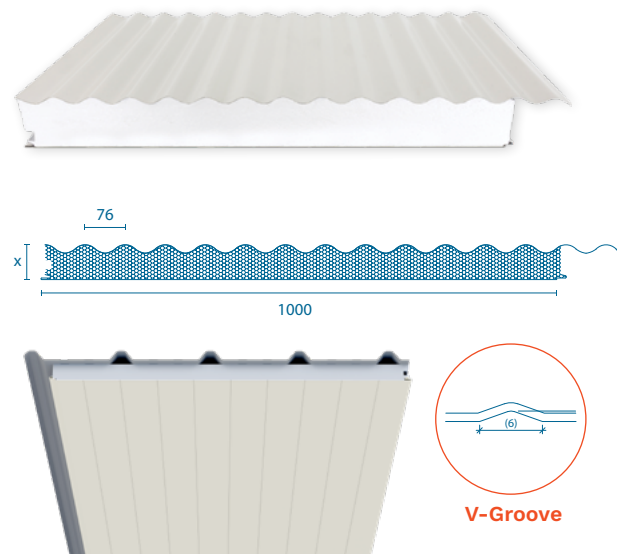
Insulated Roofing Panel Specifications

Profiles

Ribbed Insulated Roofing



Corrugated Insulated Roofing



Specifications

Panel Size (mm)	50	75	100	125	150	175	200
Ribbed Overall Thickness (mm)	78	103	128	153	178	203	228
Corrugated Overall Thickness (mm)	66	91	116	141	166	191	216
Panel Coverage (mm)	1000						
Min. Length (m)	Cut to length. 1.8						
Roof Profile and Material	Ribbed or Corrugated: 0.42 / AZ150 G550						
Ceiling Profile and Material	Smooth/V-Groove: 0.60 / AZ150 G300						
Ceiling Combinations	Ribbed/Smooth, Ribbed/V-Groove, Corrugated/Smooth						
Roof and Ceiling Finish	Roof: 25% Gloss, Ceiling: 25% Gloss						
Paint System	AS/NZS 2728 and AS 1397						
Min. Roof Pitch (o)	Ribbed: 2° (35mm / metre) or 1° limited length, Corrugated 5° (87mm / metre)						
Core Material	SL Grade Polystyrene—Fire-Retardant						
Adhesive	Thermosetting two-part polyurethane CFC free						

Notes Deflection limit of span 1/150 applies, and in accordance with Serviceability Limit State criteria per AS1170.0 - TABLE C1. Insulated Patios/Carports are considered non-trafficable. However, Insulated Roofing is designed to support a concentrated load of up to 140 kg per square meter per AS/NZS 1170.1:2001, which includes the weight of a person walking on the roof for maintenance purposes only. It is recommended to display a non-trafficable sign on the structure. 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.). Distributed live load of 0.25kPa as per AS/NZS 1170.1:2001 has been allowed for. X related to Overall Thickness of the panel. For more information refer to the Engineering & Construction Manual - <https://ausdeck.com.au/resource-hub/>

Ribbed

Panel Size (mm)	50	75	100	125	150	175	200
R Value 8°C m²KW	1.61	2.26	2.66	3.25	3.94	–	–
R Value 20°C m²KW	1.59	2.22	2.59	3.17	3.75	–	–
Panel Weight (kg/m²)	10.58	10.94	11.37	11.8	12.23	12.66	13.09

Corrugated

Panel Size (mm)	50	75	100	125	150	175	200
R Value 8°C m²KW	1.61	2.26	2.66	3.25	3.94	–	–
R Value 20°C m²KW	1.59	2.22	2.59	3.17	3.75	–	–
Panel Weight (kg/m²)	10.85	11.21	11.65	12.08	12.51	12.94	13.37

Early Fire Hazard Properties

Ribbed Insulated Roofing–AS 1530.3–EPS-FR Panel

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

Corrugated Insulated Roofing–AS 1530.3–EPS-FR Panel

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

Span Table

Wind Class	Panel Size	Wall to One Side (mm) 0.5/0.7 Cp,n	Walls to Two Sides (mm) 1.0 Cp,n	Walls to Three Sides (mm) 1.2 Cp,n	Enclosed (mm) 1.1-1.6 Cp,n	Open Four Sides (mm) 0.7 Cp,n	Open Four Sides (mm) 1.0 Cp,n	Overhang (mm)
N1	50	5300	5300	4700	5400	5300	5300	900
	75	7100	7000	5300	6500	7100	7000	900
	100	7800	7100	6100	7000	7800	7100	1200
	125	8800	8300	6700	7800	8800	8300	1500
	150	9600	8700	7500	8500	9600	8700	1800
	175	10,000	9100	8200	8900	10,000	9100	1800
	200	10,400	9500	8600	9300	10,400	9500	1800
N2	50	5000	4800	4200	4800	5000	4800	900
	75	6500	6100	5100	5900	6500	6100	900
	100	7000	6300	5400	6200	7000	6300	1200
	125	7800	7200	6000	6900	7800	7200	1500
	150	8600	7800	6600	7600	8600	7800	1800
	175	9300	8500	7300	8200	9300	8500	1800
	200	9900	9100	7800	8600	9900	9100	1800
N3	50	4800	3900	3300	3800	4800	3900	900
	75	5500	4900	4100	4800	5500	4900	900
	100	6200	5000	4300	4900	6200	5000	1200
	125	6800	5500	4800	5500	6800	5500	1500
	150	7400	6300	5200	6100	7400	6300	1700
	175	8000	6600	5600	6700	8000	6600	1700
	200	8600	7300	6200	7100	8600	7300	1700
N4	50	3600	3100	2700	3100	3600	3100	600
	75	4400	3900	3100	3900	4400	3900	900
	100	4600	4000	3500	4000	4600	4000	1200
	125	5100	4500	3900	4500	5100	4500	1300
	150	5600	5100	4300	5000	5600	5100	1400
	175	6100	5400	4600	5600	6100	5400	1500
	200	6800	6100	5200	6200	6800	6100	1500
C1	50	3800	3500	2900	3600	3800	3500	900
	75	4600	4200	3500	4400	4600	4200	900
	100	5300	4900	4100	5100	5300	4900	1200
C2	50	3100	2800	2300	2900	3100	2800	600
	75	3800	3500	2900	3600	3800	3500	600
	100	4400	4000	3300	4200	4400	4000	900
C3	50	2500	2300	1900	2400	2500	2300	400
	75	3100	2800	2400	2900	3100	2800	600
	100	3600	3300	2700	3400	3600	3300	600

Notes Tables apply to flat patio structures that are attached/freestanding. When designing flat/gable carport or gable patio structures that are attached/freestanding, refer to the Applicable Co-efficient table on page 10 of the Engineering & Construction Manual. Sheet spans are measured from the back of the receiver channel to the front of the beam. A maximum side sheet overhang of 250mm is recommended for a full sheet cover. For more information refer to the Engineering & Construction Manual - <https://ausdeck.com.au/resource-hub/>

Maximum Roof Sheet Length

For a Roof Pitch of 1 Degree

Product	Max. Roof Sheet Length @ 1 Degree (mm)
50mm Ribbed Insulated Roofing	3800
75mm Ribbed Insulated Roofing	4550
100mm Ribbed Insulated Roofing	5300
125mm Ribbed Insulated Roofing	6000
150mm Ribbed Insulated Roofing	6700

Notes Maximum roof sheet lengths shown are based on rain intensity of 350mm/hr. This table does not override the standard roof sheet span tables. For more information refer to the Engineering & Construction Manual - <https://ausdeck.com.au/resource-hub/>

Roofing Fixing Guide

Ribbed

Product	Metal Beam	Timber Beam	Screws Required
50mm Ribbed Insulated Roofing	Tek 14x125 Screw	Type 17 14x125 Screw	4 per panel for each fixing point
75mm Ribbed Insulated Roofing	Tek 14x150 Screw	Type 17 14x150 Screw	4 per panel for each fixing point
100mm Ribbed Insulated Roofing	Tek 14x175 Screw	Type 17 14x200 Screw	4 per panel for each fixing point
125mm Ribbed Insulated Roofing	Tek 14x200 Screw	Type 17 14x200 Screw	4 per panel for each fixing point
150mm Ribbed Insulated Roofing	Tek 14x225 Screw	Type 17 14x250 Screw	4 per panel for each fixing point
175mm Ribbed Insulated Roofing	Tek 14x250 Screw	Type 17 14x250 Screw	4 per panel for each fixing point
200mm Ribbed Insulated Roofing	Tek 14x275 Screw	Type 17 14x275 Screw	4 per panel for each fixing point

Corrugated

Product	Metal Beam	Timber Beam	Screws Required
50mm Corrugated Insulated Roofing	Tek 14x125 Screw	Type 17 14x125 Screw	7 per panel for each fixing point
75mm Corrugated Insulated Roofing	Tek 14x150 Screw	Type 17 14x150 Screw	7 per panel for each fixing point
100mm Corrugated Insulated Roofing	Tek 14x150 Screw	Type 17 14x200 Screw	7 per panel for each fixing point
125mm Corrugated Insulated Roofing	Tek 14x175 Screw	Type 17 14x200 Screw	7 per panel for each fixing point
150mm Corrugated Insulated Roofing	Tek 14x200 Screw	Type 17 14x250 Screw	7 per panel for each fixing point
175mm Corrugated Insulated Roofing	Tek 14x250 Screw	Type 17 14x250 Screw	7 per panel for each fixing point
200mm Corrugated Insulated Roofing	Tek 14x275 Screw	Type 17 14x275 Screw	7 per panel for each fixing point

Notes Ribbed panels require a fixing point to every crest, corrugated panels require a fixing point to every second crest. Tek 12x20 screws required at 900 centres on overlap for bracing and weather protection. All Tek 14g and Type 17 14g to be Climaseal coated with cyclonic washer. For fixing into metal beam 5mm-15mm use 'Series 500' screws. For more information refer to the Engineering & Construction Manual - <https://ausdeck.com.au/resource-hub/>