

* Conduit receiver track optional addition

Insulated Corro-EPS-FR is an Insulated Roof Panel System, comprising of two pre-painted, roll-formed steel skins, with a fire retardant grade expanded polystyrene insulating core.

The top profile offers striking looks with all of the benefits of modern Insulated Panel technologies.

The bottom skin has a roll-formed tongue and groove edge.

Recommendations

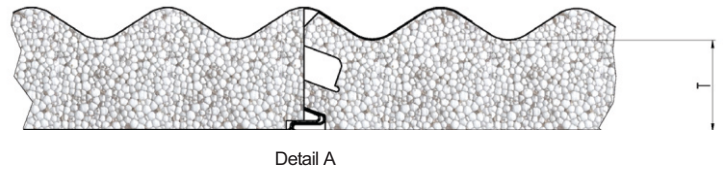
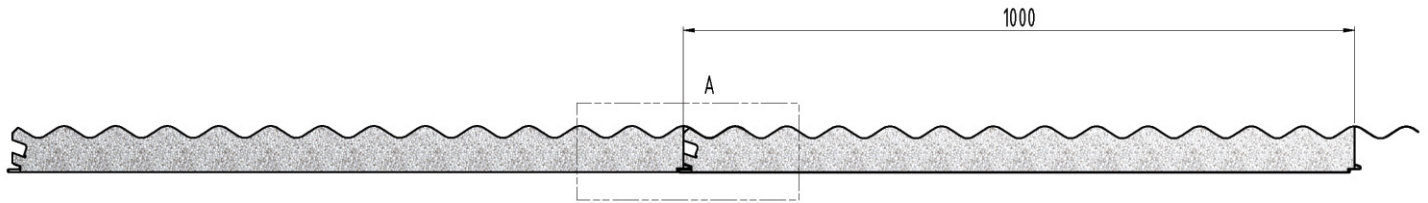
- Patios
- Pergolas
- Carports
- Portable Buildings
- Home Extensions
- Commercial Buildings
- Residential Buildings
- Wineries
- Spray Booths

Profiles Available (Underside Skin)

- Smooth
- Ribbed
- SatinLine
- Mesa

Single Spans (mm)					
Wind Category	Panel Thickness	3 Sides Open	2 Sides Open	1 Side Open	Fully Enclosed
N2 (W33)	50	5400	5000	4500	4300
	75	6500	5500	5000	4700
	100	7200	6200	5700	5500
N3 (W41)	50	4800	3800	3300	3000
	75	5500	4300	3900	3700
	100	6200	5000	4500	4300
N4 (W50)	50	4000	3300	3000	3000
	75	4600	3600	3400	3300
	100	5300	4100	3800	3500

Steel Skin Details	Top Skin	0.42mm / G550 AZ150
	Bottom Skin	0.60mm / G300 Z275
Max. Skin Temperature	78°C Dry Heat	
Core Material Details	SL Grade Polystyrene - Fire Retardant Grade	
Thermal Conductivity AS 1366.2/ASTM C 518	0.037 W/mK @22.5°C	
Adhesive	Thermosetting two-part adhesive	
Core Density	13.5kg/m ³	
Weight (kg/m²)	50mm Panel	10.58
	75mm panel	10.94
	100mm Panel	11.17
	125mm Panel	11.80
	150mm Panel	12.23
R Value @ 22.5°C	50mm Panel	1.4
	75mm panel	2.1
	100mm Panel	2.7
	125mm Panel	3.4
	150mm Panel	4.1
Sheet Coverage	1000mm	
Length (mm)	Cut to Length Min of 1800mm	
Length Tolerance (mm)	5mm+/-	
Thickness (mm)	50, 75, 100, 125, 150	
Minimum Roof Pitch	3°	



Early Fire Hazard Properties AS 1530-1999

AWTA Test Report 18-006076 14-11-2018

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	2

Insulated Corro-EPS-FR Acoustic Testing has been performed in compliance with the requirements of AS 1191-2002 "Acoustics - Method for Laboratory Measurement of Airborne Sound Insulation of Building Elements".

The procedures specified by AS 1276-1979 and AS/NZS ISO 717.1:2004 were used to calculate the Sound Transmission Class (STC) and the Weighted Sound Reduction Index (Rw) of Insulated Corro-EPS-FR

Insulated Corro-EPS-FR is classed as traficable when used in a roof application.

Insulated Corro-EPS-FR Acoustic Values

		50mm	125mm
Frequency	100	15.41	15.00
	160	16.40	15.09
	200	18.81	17.70
	250	19.70	18.51
	315	21.39	19.40
	400	22.31	19.69
	630	23.40	19.10
	800	23.69	17.31
	1000	25.61	18.29
	1250	21.01	30.10
	1600	20.00	36.19
	2000	34.79	37.30
	2500	41.70	37.09
	3150	44.10	35.69
	5000	44.61	39.90
	STC	24.00	23.00
RW	25.00	24.00	

Insulated Corro-EPS-FR Fixing Details

Crest fixing only. One fixing every second crest

Panel Thickness (mm)	Fixing into Steel	Fixing into Timber
50	Tek 14 x 115 Hex Head Screw	T17 14 x 125 Hex Head Screw
75	Tek 14 x 135 Hex Head Screw	T17 14 x 150 Hex Head Screw
100	Tek 14 x 150 Hex Head Screw	T17 14 x 175 Hex Head Screw
125	Tek 14 x 175 Hex Head Screw	T17 14 x 200 Hex Head Screw
150	Tek 14 x 200 Hex Head Screw	T17 14 x 230 Hex Head Screw

Use Cyclone Plate and Neo Washer on each fixing.

Upon Installation the overlap needs to be stitch screwed or riveted every 300mm.