



Industrial Panel Australia

- PIR Insulation Core
- Fire Resistant
- Superior Insulation
- Environmentally Friendly
- Light Weight
- Easy to Install
- Cost Effective

# ROOFSPAN

Insulated Panels for a  
Clean World



**Industrial Panel Australia Pty Ltd**

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“ Lightweight insulated roof panels for all roofing needs. ”

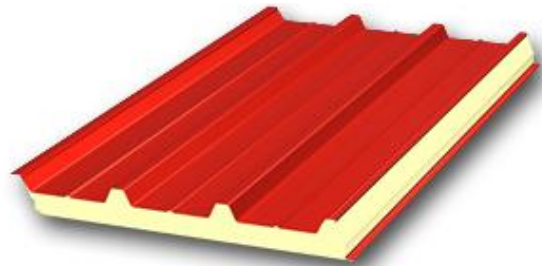
A new generation of sandwich panels with high-grade “**Polyisocyanurate (PIR)**” insulation core conforming to **EN 13501-2 Fire Resistance** standards as well as **NFPA 255 Flame Spread Index** and **NFPA 285 Fire Propagation Characteristics** norms.

### Industrial Panel Australia

IPA is the Australasian Distributor for Emirates Industrial Panels who are the market leader in providing lightweight thermal building products in United Arab Emirates, Kingdom of Saudi Arabia and throughout the rapidly developing Middle East region as well as Africa and India. EIP operates a state of the art fully automated continuous production line using the latest in German technology and provides high quality products with a proven track record to perform exceptionally in the harshest climatic conditions.



A = Insulation Thickness / T = Overall Thickness



### ROOFSPAN - Durarib panels at a glance...

- ✓ 1000mm effective cover width
- ✓ 11850mm max length
- ✓ 1500mm min length
- ROOFSPAN - Durarib is a cost effective, fire-resistant commercial and industrial roof & ceiling insulation system designed and manufactured for Australian conditions.
- ROOFSPAN - Durarib is produced using commercial grade 0.50mm/0.40mm coil coated steel facings on sides..
- ROOFSPAN - Durarib is available in core thicknesses of 50mm, 75mm, 100mm and 150mm (other thicknesses available on request) providing various levels of thermal, fire and span performance to meet different requirements and the most stringent design criteria.

- ROOFSPAN - Durarib provides uniform insulating value throughout your buildings thanks to the state of the art production line and utilization of latest production methods.
- ROOFSPAN - Durarib is suitable for a wide range of developments including supermarkets, bulk goods, fast food and retail outlets as well as commercial, industrial and housing premises.
- ROOFSPAN - Durarib as well as providing a corrugated external profile for increased panel strength; it also provides a clean, hygienic, painted surface to the underside, often completely eliminating the need for suspended ceiling systems.
- ROOFSPAN - Durarib is an environment friendly building element which uses n-Pentane as the blowing agent with zero ozone depleting potential and has no carbon emission

## Product Specifications

**Insulation core** is rigid cellular fire-resistant “polyisocyanurate” (PIR) foam with 95% closed-cell content, 40+/-2 kg/m<sup>3</sup> density, applied in a continuous-line laminator with foam laydown technology and  $\lambda = 0.021$  W/mK thermal conductivity.

**Blowing agent** is environment-friendly n-Pentane 95 gas (Zero ODP).

**External and internal metal facings** 0.50mm/0.40mm thick are corona treated, hot-dip galvanized carbon steel of grades between DX51D to S320GD, conforming to EN10327 and EN10147 respectively. Dimensional tolerances are as per EN 10143 (Different thicknesses and substrate options available upon request)

**Top finish** is 5+20 microns thick, RAL9002 coloured PES (polyester) coating, applied with coil-coating technology (different coating options available upon request)

**External profile** with 4 ridges, 40mm ridge height and 333mm valley width.

**Internal profile** standard Low Rib or with Groove, Micro Line and Micro Wave options.

**Acoustic properties:** All ROOFSPAN - Durarib panels have a single figure weighted sound reduction value of  $R_w = 25$ dB.



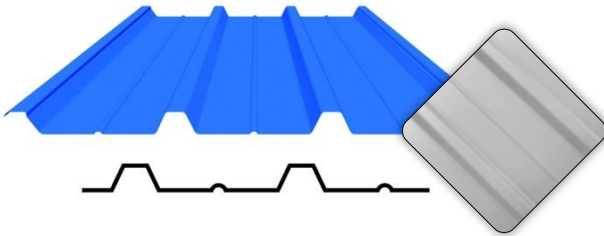
## Fire Properties

When exposed to a real fire situation, ROOFSPAN - Durarib panels;

- ✓ Do not spread flame.
- ✓ Give off minimal smoke
- ✓ Preserve their insulation properties
- ✓ Preserve their structural integrity
- ✓ Self-extinguish when the fire source is removed

## External Profile

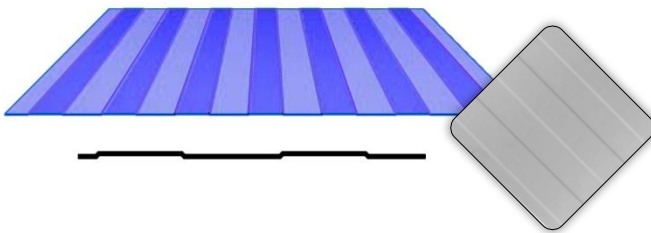
**DURARIB PROFILE**



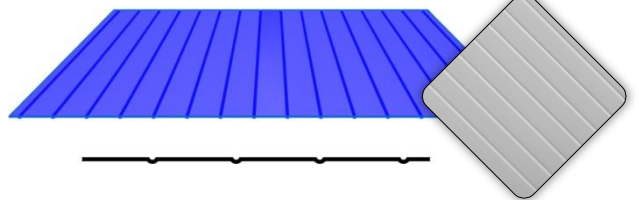
## Internal Profiles

Standard profile being Low Rib any of the below profiles can be used as required.

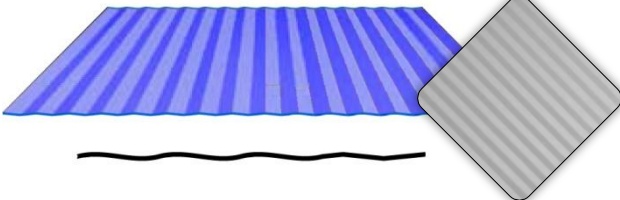
**LOW RIB PROFILE**



**GROOVE PROFILE**



**MICRO WAVE PROFILE**



**MICRO LINE PROFILE**



**FLAT PROFILE**

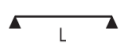



## Thermal Performance & Weight Table

Panel Type	Panel Thickness (mm)	Panel Width (mm)	Outer Sheet (mm)	Outer Sheet Material	Inner Sheet (mm)	Inner Sheet Material	Thermal Performance		Panel Weight (kg/m <sup>2</sup> )
							U (W/m <sup>2</sup> K)	R (m <sup>2</sup> K/W)	
ROOFSPAN - Durarib Roof Panel	50	1000	0.50	Steel	0.40	Steel	0.3684	2.7143	10.339
			0.70	Aluminum	0.50	Aluminum			6.017
	75		0.50	Steel	0.40	Steel	0.2561	3.9048	11.339
			0.70	Aluminum	0.50	Aluminum			7.017
	100		0.50	Steel	0.40	Steel	0.1963	5.0952	12.339
			0.70	Aluminum	0.50	Aluminum			8.017
	150		0.50	Steel	0.40	Steel	0.1338	7.4762	14.339
			0.70	Aluminum	0.50	Aluminum			10.017

## Load / Span Table\*

{ 1 kN = 101.97 kg-force }

Span Condition	Core Thickness	Load Type	Uniformly Distributed Loads (kN/m <sup>2</sup> )							
			Span L in Meters							
			1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00
Single-span 	50 mm	Downwards	3.21	2.02	1.40	1.00	0.75	0.58	0.47	0.30
		Upwards	6.98	4.52	3.18	2.32	1.69	1.26	1.02	0.82
	75 mm	Downwards	3.94	2.61	1.89	1.41	1.09	0.86	0.71	0.57
		Upwards	9.23	6.23	4.48	3.07	2.13	1.57	1.26	1.01
	100 mm	Downwards	4.63	3.16	2.33	1.78	1.40	1.12	0.93	0.78
		Upwards	11.33	7.82	5.67	3.62	2.51	1.85	1.46	1.18
Multi-span 	50 mm	Downwards	3.21	2.02	1.40	1.00	0.75	0.58	0.47	0.37
		Upwards	4.45	2.75	1.90	1.39	1.10	0.90	0.80	0.69
	75 mm	Downwards	3.94	2.61	1.89	1.41	1.09	0.86	0.71	0.58
		Upwards	4.96	3.04	2.15	1.74	1.31	1.08	0.94	0.85
	100 mm	Downwards	4.63	3.16	2.33	1.78	1.40	1.12	0.93	0.78
		Upwards	5.45	3.22	2.56	1.89	1.51	1.22	1.05	0.94

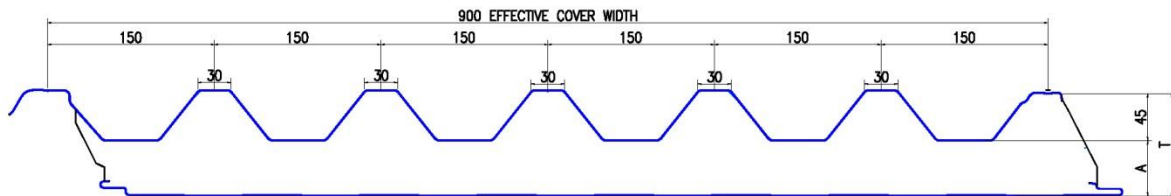
- \* Calculations have been based on panels with 0.50mm/0.40mm thick steel facings.
- \* Calculations have been based on L/150 deflection value.
- \* Calculations have been based on commercial grade carbon steel
- \* For intermediate span values linear interpolation may be used.

“Lightweight insulated roof panels with increased strength and greater span capabilities.”

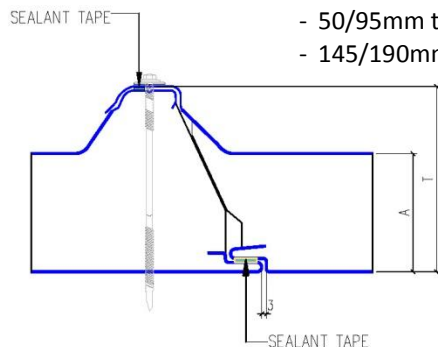
A new generation of sandwich panels with high-grade “Polyisocyanurate” (PIR) insulation core conforming to EN 13501-2 Fire Resistance standards as well as NFPA 255 Flame Spread Index and NFPA 285 Fire Propagation Characteristics norms.

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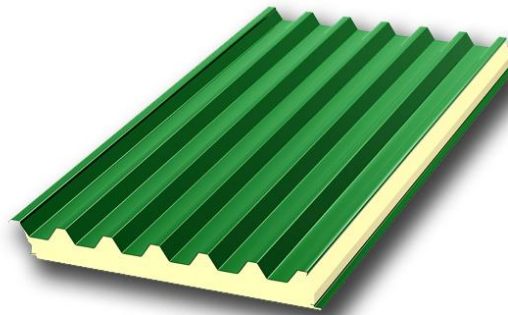
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A = Insulation Thickness / T = Overall Thickness



- 50/95mm thickness
- 70/115mm thickness
- 95/140mm thickness
- 145/190mm thickness



## ROOFSPAN - Megarib panels at a glance...

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- ✓ 1500mm min length
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- ROOFSPAN - Megarib is available in core thicknesses of 50mm, 70mm, 95mm and 145mm (other thicknesses available on request) providing various levels of thermal, fire and span performance to meet different requirements and the most stringent design criteria.

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**Insulation core** is rigid cellular fire-resistant “polyisocyanurate” (PIR) foam with 95% closed-cell content, 40+/-2 kg/m<sup>3</sup> density, applied in a continuous-line laminator with foam laydown technology and  $\lambda = 0.021$  W/mK thermal conductivity.

**Blowing agent** is environment-friendly n-Pentane 95 gas (Zero ODP).

**External and internal metal facings** 0.50mm/0.40mm thick are corona treated, hot-dip galvanized carbon steel of grades between DX51D to S320GD, conforming to EN10327 and EN10147 respectively. Dimensional tolerances are as per EN 10143 (Different thicknesses and substrate options available upon request)

**Top finish** is 5+20 microns thick, RAL9002 coloured PES (polyester) coating, applied with coil-coating technology (different coating options available upon request)

**External profile** with 7 ridges, 45mm ridge height and 150mm valley width.

**Internal profile** standard Low Rib or with Groove, Micro Line and Micro Wave options.

**Acoustic properties:** All ROOFSPAN - Megarib panels have a single figure weighted sound reduction value of  $R_w = 25$ dB.



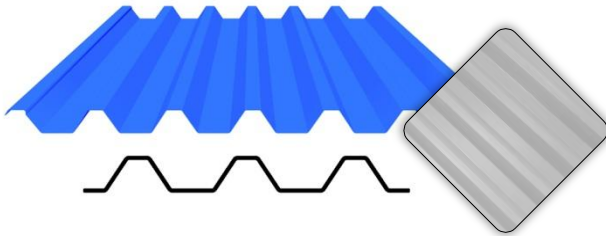
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- ✓ Preserve their insulation properties
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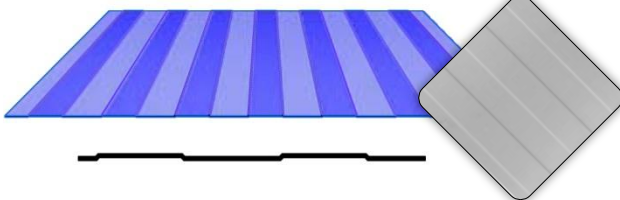
**MEGARIB PROFILE**



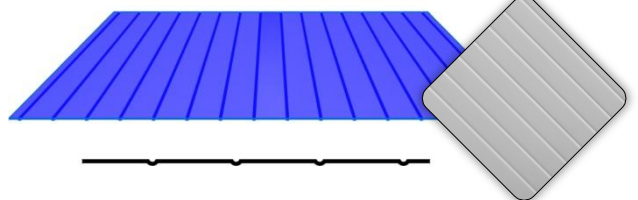
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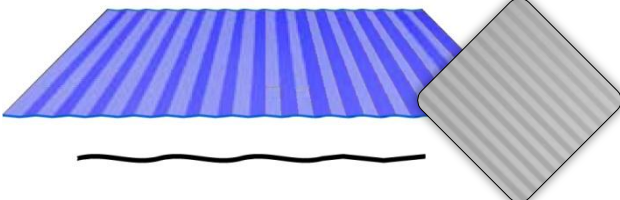
**LOW RIB PROFILE**



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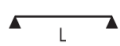



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ROOFSPAN - Megarib Roof Panel	50	900	0.50	Steel	0.40	Steel	0.3443	2.9048	11.381
			0.70	Aluminum	0.50	Aluminum			6.720
	70		0.50	Steel	0.40	Steel	0.2593	3.8571	12.181
			0.70	Aluminum	0.50	Aluminum			7.520
	95		0.50	Steel	0.40	Steel	0.1981	5.0476	13.181
			0.70	Aluminum	0.50	Aluminum			8.520
	145		0.50	Steel	0.40	Steel	0.1346	7.4286	15.181
			0.70	Aluminum	0.50	Aluminum			10.520

## Load / Span Table\*

{ 1 kN = 101.97 kg-force }

Span Condition	Core Thickness	Load Type	Uniformly Distributed Loads (kN/m <sup>2</sup> )							
			Span L in Meters							
			1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00
Single-span 	50 mm	Downwards	5.43	3.19	2.17	1.61	1.26	0.95	0.69	0.40
		Upwards	11.83	7.17	4.92	3.72	2.84	2.06	1.50	1.10
	70 mm	Downwards	5.61	3.35	2.31	1.73	1.38	1.27	0.94	0.70
		Upwards	12.98	7.91	5.43	3.81	2.75	2.37	1.72	1.30
	95 mm	Downwards	5.79	3.50	2.44	1.85	1.50	1.37	1.19	0.97
		Upwards	13.96	8.61	5.87	3.87	2.78	2.35	1.96	1.56
Multi-span 	50 mm	Downwards	5.43	3.19	2.17	1.61	1.26	0.95	0.69	0.50
		Upwards	7.53	4.35	2.95	2.22	1.85	1.47	1.17	0.92
	70 mm	Downwards	5.61	3.35	2.31	1.73	1.38	1.27	0.94	0.72
		Upwards	7.03	3.85	2.56	2.13	1.67	1.57	1.25	1.07
	95 mm	Downwards	5.79	3.50	2.44	1.85	1.50	1.37	1.19	0.97
		Upwards	7.07	3.85	2.75	2.13	1.71	1.61	1.45	1.29

- \* Calculations have been based on panels with 0.50mm/0.40mm thick steel facings.
- \* Calculations have been based on L/150 deflection value.
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# ROOFSPAN - Flexirib

“ Cost effective extra lightweight insulated roof panels. ”

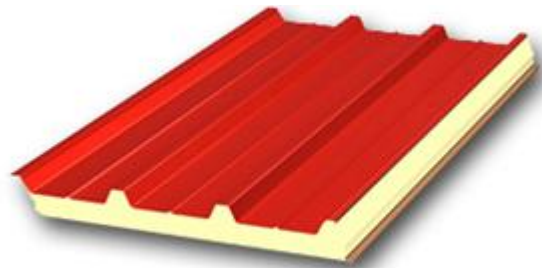
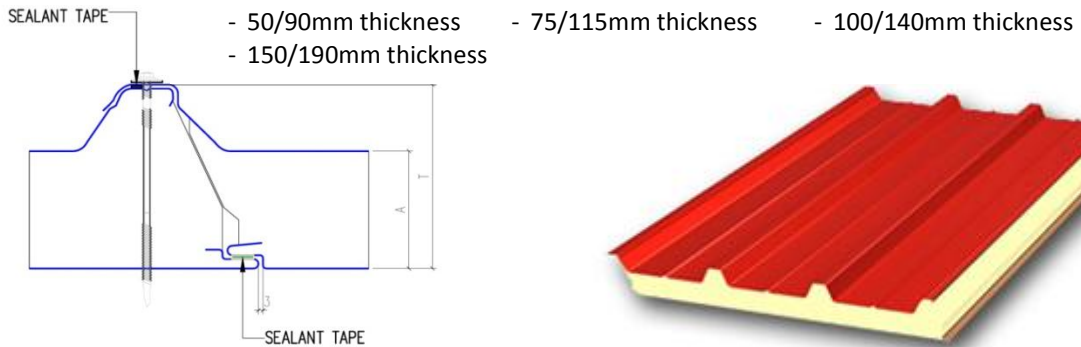
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- ROOFSPAN - Flexirib is produced using commercial grade 0.50mm coil coated external steel facings and Aluminum foil internal facing.
- ROOFSPAN - Flexirib is available in core thicknesses of 50mm, 75mm, 100mm and 150mm (other thicknesses available on request) providing various levels of thermal, fire and span performance to meet different requirements and the most stringent design criteria.



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## Product Specifications

**Insulation core** is rigid cellular fire-resistant “polyisocyanurate” (PIR) foam with 95% closed-cell content, 40+/-2 kg/m<sup>3</sup> density, applied in a continuous-line laminator with foam laydown technology and  $\lambda = 0.021$  W/mK thermal conductivity.

**Blowing agent** is environment-friendly n-Pentane 95 gas (Zero ODP).

**External metal facing** 0.50mm thick are corona treated, hot-dip galvanized carbon steel of grades between DX51D to S320GD, conforming to EN10327 and EN10147 respectively. Dimensional tolerances are as per EN 10143 (Different thicknesses and substrate options available upon request)

**Internal facing** is 7 microns thick Aluminum foil reinforced with 60gsm natural kraft paper.

**Top finish** is 5+20 microns thick, RAL9002 coloured PES (polyester) coating, applied with coil-coating technology (different coating options available upon request)

**External profile** with 4 ridges, 40mm ridge height and 333mm valley width.

**Internal profile** Flat.

**Acoustic properties:** All ROOFSPAN - Flexirib panels have a single figure weighted sound reduction value of  $R_w = 25$ dB.

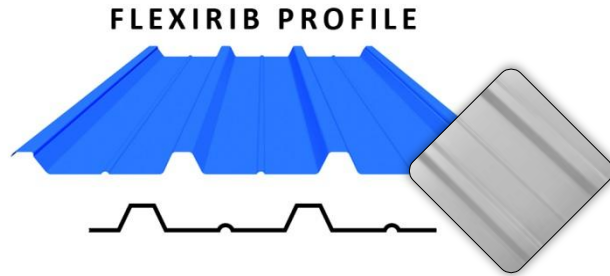


## Fire Properties

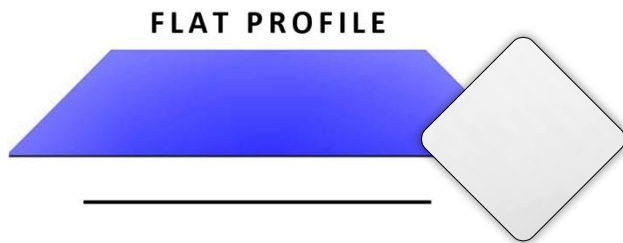
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## External Profile



## Internal Profiles



## Thermal Performance & Weight Table

Panel Type	Panel Thickness (mm)	Panel Width (mm)	Outer Sheet (mm)	Outer Sheet Material	Inner Sheet (mm)	Inner Sheet Material	Thermal Performance		Panel Weight (kg/m <sup>2</sup> )
							U (W/m <sup>2</sup> K)	R (m <sup>2</sup> K/W)	
ROOFSPAN - Flexirib Roof Panel	50	1000	0.50	Steel	0.40	Steel	0.3684	2.7143	6.963
			0.70	Aluminum	0.50	Aluminum			4.560
	75		0.50	Steel	0.40	Steel	0.2561	3.9048	7.963
			0.70	Aluminum	0.50	Aluminum			5.560
	100		0.50	Steel	0.40	Steel	0.1963	5.0952	8.963
			0.70	Aluminum	0.50	Aluminum			6.560
	150		0.50	Steel	0.40	Steel	0.1338	7.4762	10.963
			0.70	Aluminum	0.50	Aluminum			8.560

## Span Recommendations

Maximum recommended purlin spacing for all ROOFSPAN - Flexirib panels is 1.8m.

# ROOFSPAN

