



Industrial Panel Australia

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

# COLDSPAN

Insulated Panels for a  
**Clean World**



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“Insulated lightweight wall & ceiling panels for cold storages and food preparation areas.”

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

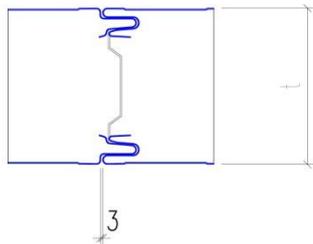
## Industrial Panel Australia

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.



T = Thickness of Panel

- |                   |                   |                   |                   |
|-------------------|-------------------|-------------------|-------------------|
| - 55mm thickness  | - 80mm thickness  | - 100mm thickness | - 120mm thickness |
| - 140mm thickness | - 150mm thickness | - 170mm thickness | - 200mm thickness |



## COLDSPAN panels at a glance...

- ✓ 1110mm effective cover width
- ✓ 11850mm max length
- ✓ 1500mm min length
- COLDSPAN is a cost effective, fire-resistant commercial and industrial wall & ceiling insulation system.
- COLDSPAN is produced using commercial grade 0.50mm coil coated steel facings on both sides.
- COLDSPAN is available in core thicknesses of 55mm, 80mm, 100mm, 120mm, 140mm, 150mm, 170mm and 200mm (other thicknesses available on request) providing various levels of thermal, fire and span performance to meet different requirements and the most stringent design criteria.
- COLDSPAN provides uniform insulating value throughout your buildings thanks to the state of the art production line and utilization of latest production methods.

- COLDSPAN is suitable for a wide range of developments including cold storage warehouses, refrigerated distribution centers, food processing plants, and pharmaceutical clean rooms as well as controlled atmosphere cold stores.
- COLDSPAN possesses a special fire-rated joint geometry providing effective foam-to-foam contact for maximum thermal insulation while increasing structural integrity against fire.
- COLDSPAN 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 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 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** standard Low Rib or with Groove, Micro Line and Micro Wave options.

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

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



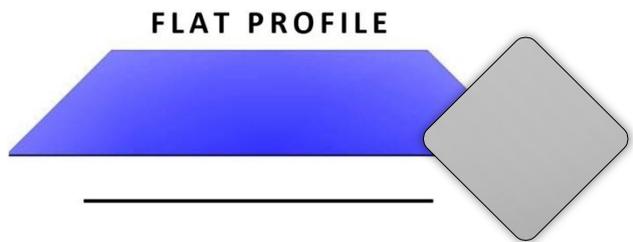
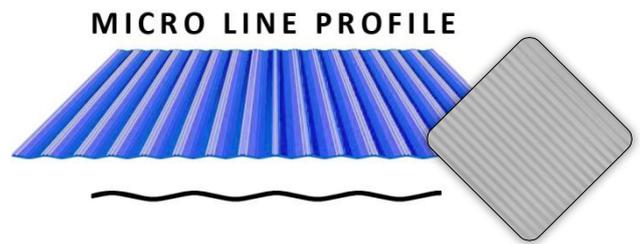
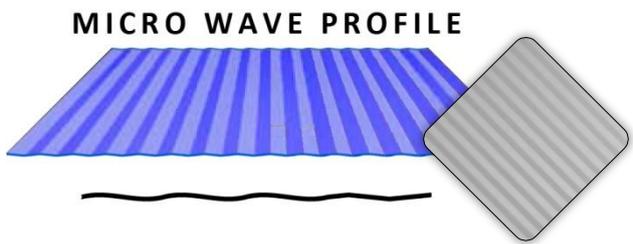
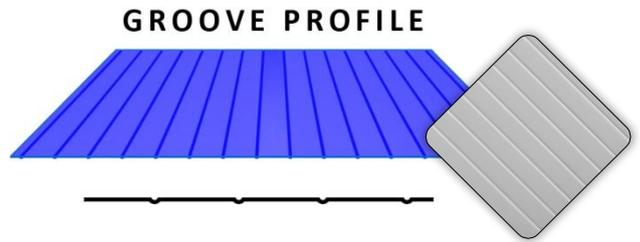
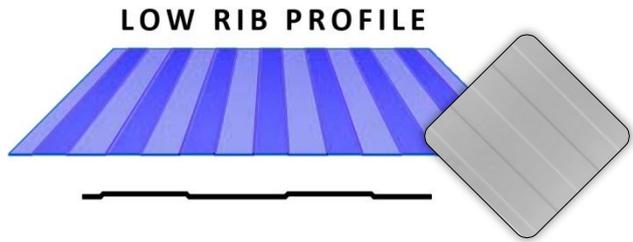
## Fire Properties

When exposed to a real fire situation, COLDSPAN 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 & Internal Profiles

Standard profiles being Low Rib on both sides any of the below profiles can be used as required.



## 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) |                                   |
| COLDSPAN - Wall & Ceiling Panel | 55                   | 1110             | 0.50             | Steel                | 0.50             | Steel                | 0.3818                 | 2.6190                 | 10.828                            |
|                                 | 80                   |                  |                  |                      |                  |                      | 0.2625                 | 3.8095                 | 11.828                            |
|                                 | 100                  |                  |                  |                      |                  |                      | 0.2100                 | 4.7619                 | 12.628                            |
|                                 | 120                  |                  |                  |                      |                  |                      | 0.1750                 | 5.7143                 | 13.428                            |
|                                 | 140                  |                  |                  |                      |                  |                      | 0.1500                 | 6.6667                 | 14.228                            |
|                                 | 150                  |                  |                  |                      |                  |                      | 0.1400                 | 7.1429                 | 14.628                            |
|                                 | 170                  |                  |                  |                      |                  |                      | 0.1235                 | 8.0952                 | 15.428                            |
|                                 | 200                  |                  |                  |                      |                  |                      | 0.1050                 | 9.5238                 | 16.628                            |

## Freestanding Wall & Ceiling Span Guide\*

| Panel Type                      | Panel Thickness (mm) | Panel Width (mm) | Outer Sheet (mm) | Outer Sheet Material | Inner Sheet (mm) | Inner Sheet Material | Max. Wall Height (m) | Max. Ceiling Span (m) |
|---------------------------------|----------------------|------------------|------------------|----------------------|------------------|----------------------|----------------------|-----------------------|
| COLDSPAN - Wall & Ceiling Panel | 55                   | 1110             | 0.50             | Steel                | 0.50             | Steel                | 4.00                 | 3.00                  |
|                                 | 80                   |                  |                  |                      |                  |                      | 6.00                 | 4.00                  |
|                                 | 100                  |                  |                  |                      |                  |                      | 8.00                 | 5.00                  |
|                                 | 120                  |                  |                  |                      |                  |                      | 10.00                | 6.00                  |
|                                 | 140                  |                  |                  |                      |                  |                      | 12.00                | 6.60                  |
|                                 | 150                  |                  |                  |                      |                  |                      | 13.00                | 7.00                  |
|                                 | 170                  |                  |                  |                      |                  |                      | 14.00                | 8.00                  |
|                                 | 200                  |                  |                  |                      |                  |                      | 16.00                | 8.60                  |

- \* Panels must be installed in accordance with the standards described in EIP brochures.
- \* Panels must be installed at least 300mm into the floor level below top finish.
- \* Concrete kerb stone of at least 500mm must be installed to both sides of walls.
- \* These values represent the maximum wall & ceiling span which can be covered with a single panel without use of intermediate steel supports and ceiling suspension sets.

