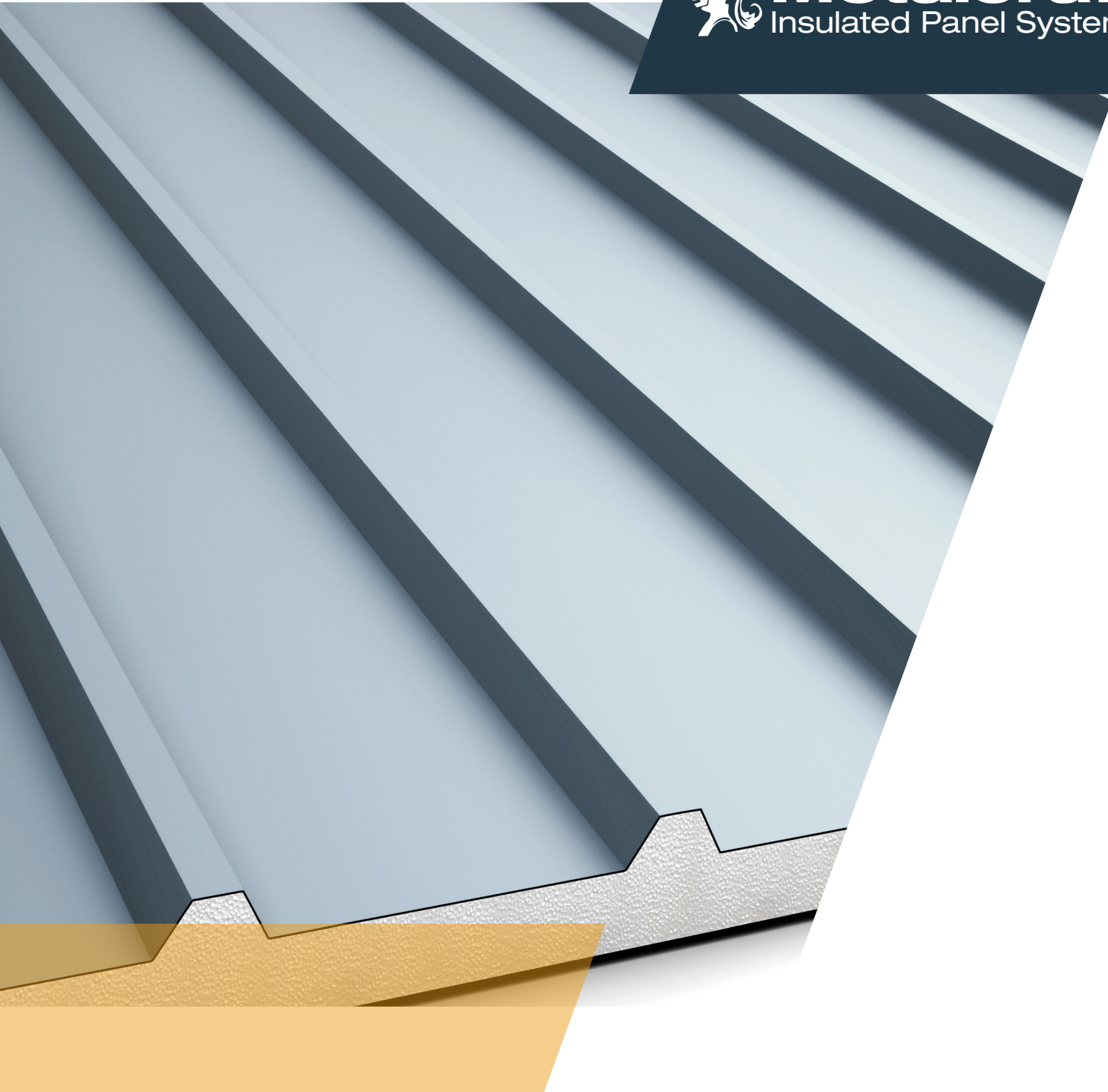




Metalcraft
Insulated Panel Systems



THERMO
SPAN



ABOUT US

METALCRAFT INSULATED PANEL SYSTEMS IS PART OF THE INTERNATIONAL METECNO GROUP OF COMPANIES ESTABLISHED 45 YEARS AGO AND PRESENT IN MORE THAN 26 COUNTRIES. WE PRIDE OURSELVES ON BEING EXPERTS IN THIS INDUSTRY.

Metecno NZ Ltd trading as Metalcraft Insulated Panel Systems specialises in the manufacture and supply of insulated panels. All products are backed by solid warranties and the range of insulated panels, supplied by Metalcraft Insulated Panel Systems, is used in a variety of applications from residential to commercial.

THERMOSPAN

FEATURES AND BENEFITS

ThermoSpan® consists of a 0.59mm profiled roofing sheet bonded to an EPS core with a ceiling panel sheet bonded to the underside. ThermoSpan® does have fire retardant properties but is not fire rated.

ThermoSpan® can be used in a variety of residential and commercial, roof and wall cladding applications. ThermoSpan® panel's are also available in a limited colour range from the Colorsteel® range of roof colours.

- Fire Retardant treated
- Long Spans
- NZ manufactured - Longer sheet lengths
- Thermally Efficient
- Non ozone depleting
- Compatibility with openings and design elements of the building

CODEMARK®

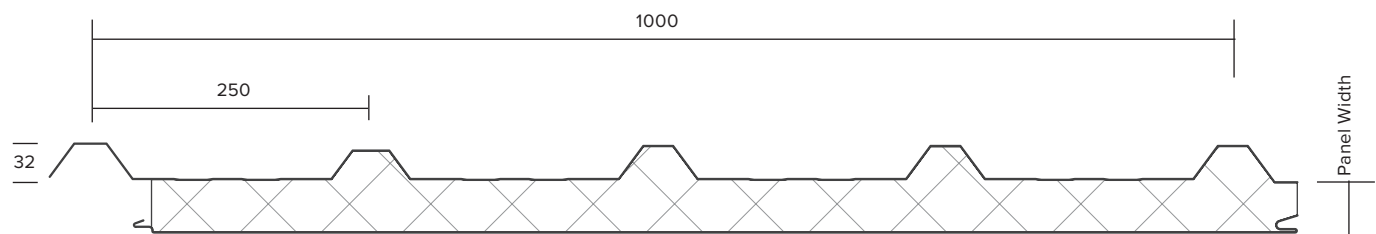
Thermopanel has been Codemark certified. Please refer to Metalcraft for specific Codemark installation requirements.

COMPLIANCE WITH THE NEW ZEALAND BUILDING CODE

Where the Metalcraft Insulated Panel System is designed, installed and maintained in accordance with the conditions of CodeMark Certificate (No. GM-CM30078) the panel system will comply or contribute to compliance with the NZ Building Code

PRODUCT PROPERTIES

PANEL DIMENSIONS



METALCRAFT CODEMARK EXPLAINED

Metalcraft Insulated Panels is the certificate holder of CodeMark (GM-CM30078) for ThermoSpan and ThermoPanel Insulated EPS Panels. CodeMark is a third party certification, allowed for under the Building Act 2004. This means that under law, a Building Consent Authority must accept the specification of ThermoSpan and ThermoPanel EPS Insulated Panels (the panel and the installation details) as complying with the NZ Building Code, providing that all conditions of the certificate have been met.

Achieving CodeMark also focuses on the quality of ThermoSpan and ThermoPanel Insulated EPS Panels, and the quality and competence of the support provided by Metalcraft Insulated Panels.

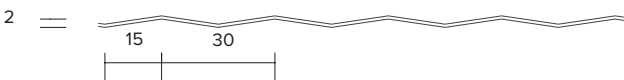
This means that designers and installers can use ThermoSpan and ThermoPanel Insulated EPS Panels with confidence that, providing all instructions are followed, ThermoSpan and ThermoPanel Insulated EPS Panels will result in building work complying with the NZ Building Code. CodeMark Certificate- GM-CM30078 issued by Global-Mark Pty.

INNER PROFILE OPTIONS

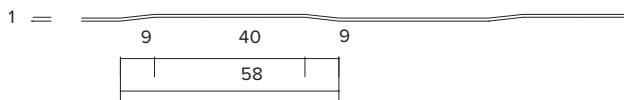
ThermoSpan® consists of a 0.59mm profiled roofing sheet bonded to an EPS core with a ceiling panel sheet bonded to the underside. ThermoSpan® has a fire retardant EPS core and is available with a range of colour and ceiling profile finishes.



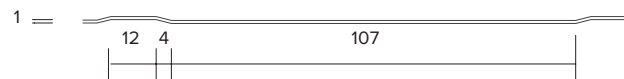
FLAT



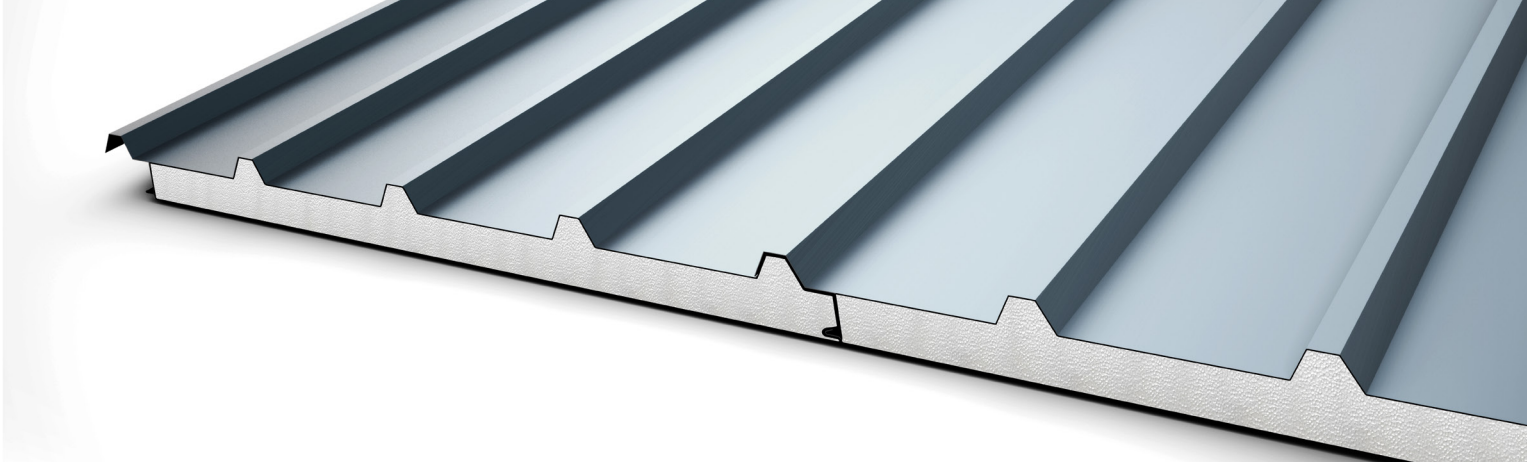
SILKLINE



MESA



RIBBED



THERMAL

Panel Thickness (mm)	50	75	100	125	150	200	250
Mass (Kg/m ²)	11.30	11.60	12.00	12.30	12.70	13.30	14.00
U Value (W/m ² K)	0.76	0.51	0.38	0.30	0.25	0.19	0.15
R Value (m ² K/W)	1.32	1.97	2.63	3.29	3.95	5.26	6.58

PRODUCT PROPERTIES	
Core	EPS- Fire retardant Class S Standard
External facing	0.59mm CP Grade Prepainted Galvanised Steel or Colorsteel® Endura® or Colorsteel® Maxx® The correct steel is dependent on the environmental category and corrosion zone, please refer to Metalcraft.
Internal Facing	0.59mm CP Grade Prepainted Galvanised Steel
Width	1000mm
Length	Manufactured in Auckland so lengths are restricted by transportation to site. If longer than 15m check with Metalcraft.
Thickness	50mm, 75mm, 100mm, 125mm 150mm, 200mm, 250mm
Fire Rated	No
Fire Resistant	No
FM Approved	No

INTERNAL SPREAD OF FLAME

Thermospan conforms to the requirements of the NZBC and has achieved a group 1S.
Specific installation requirements are needed and available if required.

LOADSPAN

Thickness (mm)	Span (mm)															
	1500	1800	2100	2400	2700	3000	3300	3600	3900	4100	4500	4800	5100	5400	5700	6000
50	2.88	2.4	2.06	1.8	1.6	1.44	1.21	1.02	0.87	0.79	0.65	0.57	0.51	0.45		
75	3	2.5	2.14	1.87	1.67	1.5	1.36	1.25	1.15	1.1	0.93	0.82	0.72	0.64	0.58	0.52
100	3.61	3	2.58	2.25	2	1.8	1.64	1.5	1.39	1.32	1.13	0.99	0.88	0.78	0.7	0.63
125										1.88	1.56	1.37	1.21	1.08	0.97	0.87
150										2.25	1.87	1.64	1.45	1.3	1.16	1.05

Notes

- 1 Pressures are maximum permissible values with a safety factor of 1.8 on the ultimate mean failure load.
- 2 Where required, Ultimate Limit State Pressure values are obtained by multiplying table values by 1.8 (Safety factor) and 0.9 (Material factor). ie, Ultimate Limit State value (kPa) = Table value x 1.8 x 0.9 (kPa).
- 3 The maximum permissible pull-out load on a rib fixing is 1.8 kN. Always check that adequate fixing capacity is provided.
- 4 The spans are for single spans ie panel supported at the ends. The spans in multi-span cases are no greater than for the single span case.
- 5 The maximum overhang is 0.25 times the maximum span for the given conditions, provided this value does not exceed: 600 mm for 50mm ThermoSpan®, 1000 mm for 75mm ThermoSpan and 1200 mm for 100mm ThermoSpan.

CAD DETAILS

DWG - DXF - PDF - RVT

Files available for downloading from the
architects resource www.metalcraftgroup.co.nz.

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Metalcraft Insulated Panel Systems is part of the worldwide Metecno Group.
Established 45 years ago and in over 26 countries worldwide.

For more information on Metalcraft Insulated Panel Systems
visit: www.metalcraftgroup.co.nz.

Metalcraft Insulated Panel Systems is part of United Industries
Group. www.unitedindustries.co.nz.



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