



RFw 1000

Trapezoidal Roof and Wall Panel

Product Guide



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Metecno NZ

State-of-the-art \$30 million, 8,500sqm manufacturing facility in Hamilton, New Zealand, supported by United Industries Group.

About Metecno

Metecno Group

Founded in Italy in 1961, Metecno Group has been a global leader in insulated building materials for over 58 years, delivering cutting-edge solutions across 16 countries. Our expansion into New Zealand marks a significant step in local manufacturing, lowering emissions and meeting the growing demand for energy-efficient cladding and roofing solutions.

Metecno NZ

We're proud to strengthen our global presence with a state-of-the-art \$30 million, 8,500sqm manufacturing facility in Hamilton, New Zealand, supported by United Industries Group.

TE RAPA PLANT HIGHLIGHTS:

Producing insulated panels & Insulation boards, supporting residential, commercial & controlled environments.

Driving local economic growth & sustainability.

This facility isn't just an expansion—it's a commitment to a greener, more energy-efficient future for New Zealand's construction industry.

Metecno at a Glance

- **58 Years of experience**
- **16 Factories worldwide**
- **30 Offices worldwide**
- **2000 employees worldwide**

United Industries Group

Metecno NZ is part of United Industries Group Limited. United Industries is heavily involved in providing materials and services to the New Zealand construction market through its group companies.

For more information on United Industries, please visit:
www.unitedindustries.co.nz

Insulated Panels & Boards

INSULATED PANELS & BOARDS: SMARTER, FASTER, AND MORE SUSTAINABLE.

Metecno NZ delivers a full range of insulated panel solutions designed for cool rooms, cold storage, architectural walls and roofing applications. Built for superior thermal efficiency, fire resistant and durable, our panels ensure seamless installation and long-term performance for residential, commercial and industrial projects.

INSULATED PANELS – PERFORMANCE, EFFICIENCY & SUSTAINABILITY

Proudly NZ-made, our insulated panels offer longer sheet lengths, shorter lead times and enhanced energy efficiency. Engineered for durability and high thermal performance, they support faster construction, reduced costs and long-term sustainability.

Committed to Local & Sustainable Sourcing

We prioritise New Zealand-based suppliers, sourcing high-quality steel from New Zealand Steel, our insulated panels are available in COLORSTEEL® CP (coolroom panel) and COLORSTEEL® MAXAM®, ensuring:

- Exceptional strength
- Superior weather resistance
- Sustainable sourcing





Introduction

RFw 1000 Roofing and Cladding Panel

Metecno's RFw 1000 insulated panels are Manufactured on a continuous production line where the fire resistant PIR core is foamed and cured directly between 0.55mm or 0.59mm BMT steel skins from New Zealand Steel in COLORSTEEL® and /or ® COLORSTEEL® CP depending on application and environmental categories.

- Exceptional thermal & moisture resistance
- Built-in fire-retardant properties
- Low air Leakage

Metecno's RFw 1000 insulated panels are a smart choice for commercial buildings, the PIR (polyisocyanurate) insulation core provides for exceptional thermal performance and helps maintain consistent indoor temperatures that can contribute to reduced energy consumption, and lower overall operating costs.

The Metecno RFw 1000 system provides an all-in-one solution with a trapezoidal roof profile, PIR insulation layer, and an internal steel liner available in three finishes offering a sleek, modern design, that looks great as a finished ceiling.

TYPICAL COMMERCIAL APPLICATIONS INCLUDE:

- Offices
- Sheds/Warehouses/ Factories
- Education – Classrooms & Gymnasiums
- Industrial Buildings
- Agricultural Buildings
- Health and Laboratories
- Transportable /Prefab Buildings – as roofing or cladding component

Non Ozone depleting

Metecno's RFw 1000 panel uses Pentane as the blowing agent, which has zero ozone-depleting potential, making it an environmentally responsible choice.

Fixing Method

Metecno's RFw 1000 panels are installed through-fixed into steel or timber structures.

Structure

Metecno's RFw 1000 panels are classified as cladding or roofing components and, as such, have not been tested for bracing or load-bearing capabilities.

What is PIR?

Polyisocyanurate (PIR) is a high-performance rigid foam insulation widely used as the core of insulated panels in commercial, industrial, and cold storage buildings. Its closed-cell thermoset structure provides excellent thermal insulation by minimising heat transfer, improving energy efficiency, and reducing electricity consumption in coolrooms and freezers.

Features and Benefits

Features & Benefits

Metecno's RfW 1000 panels are available in a range of colours with a variety of profile finishes.

Indicative 3D Render of RfW 1000

NZ Made for longer sheet lengths and shorter lead times.

FEATURES AND BENEFITS INCLUDE:

- Excellent thermal properties
- Fire retardant PIR thermosetting core
- Longer lengths, up to 24m.
- Shorter lead times
- Strong and durable
- NZ Steel - COLORSTEEL® colours providing a perfect colour match with flashings
- Ease of cutting and trimming on site
- Minimal mess on site
- Compatibility with openings and design elements of the building

Colours

RfW 1000 insulated panels are manufactured as standard in COLORSTEEL® Titania, other colour options are available and steel swatches are available on request.

*Ebony is only suitable for internal applications, due to heat build-up on dark colours.



Thermal Performance and Weight

The below total R-values are for insulation at an average temperature of 15°C. Contact us for other temperatures. Weight is approx within 10% to allow for manufacturing tolerances.

Properties	CR 1100 Panel Thickness (mm)				
	50	75	100	125	150
Product R-Value (m2K/W) *	2.20	3.30	4.35	5.45	6.55
In-Service R -Value (m2K/W) **	2.38	3.48	4.53	5.63	6.73

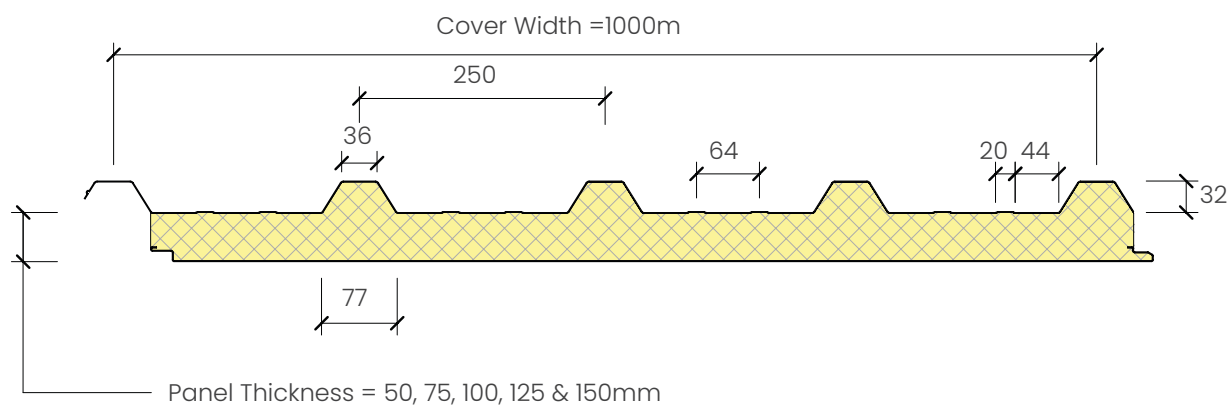
* Product R-Value = aged thermal performance at 15°C in accordance with AS/NZS 4859 Parts 1 & 2:2018; applicable prior to installation of insulation panels or boards

** In-Service R-Value = thermal resistance of the product as part of a building element, including surface air films, determined in accordance with NZS 4214.

Product Properties

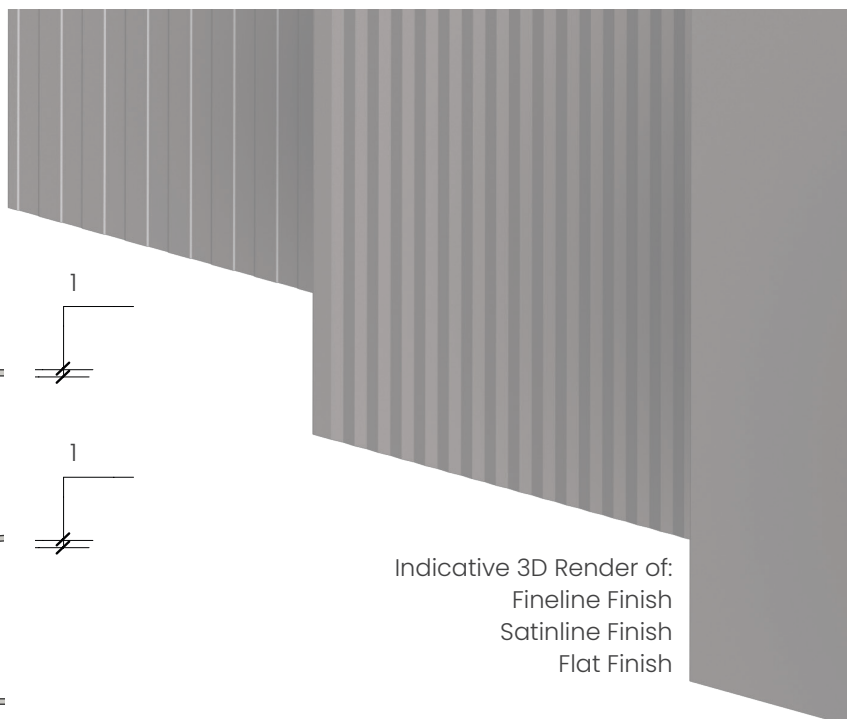
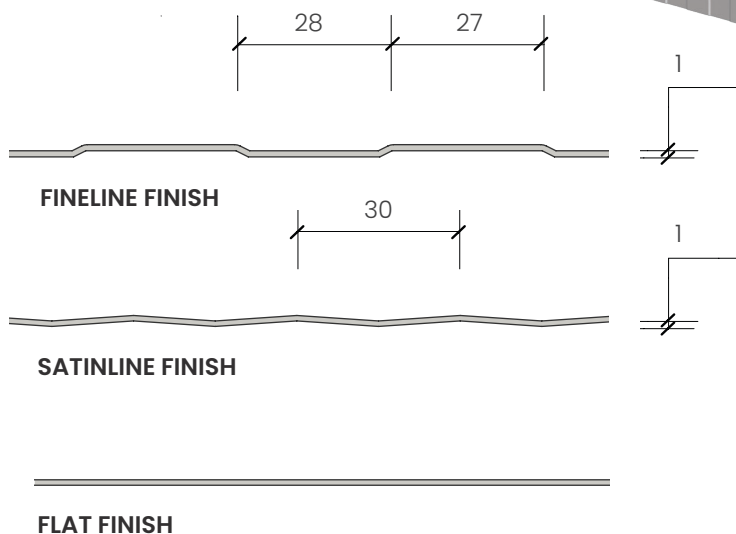
Panel Interlocking Joint

Interlocking roof panel joints help keep heat out and stop air leaks. This improves insulation, reduces condensation, and makes the building more energy-efficient overall.



Panel Finish Options

INTERNAL PROFILE OPTIONS:



All dimensions are all nominal and may vary with manufacturing and installation tolerances.

Product Properties

Product Properties	
Place of Manufacture	Metecno NZ, 10 Earthmover Crescent, Burbush, Hamilton, New Zealand
Core	Polyisocyanurate (PIR) Density 37Kg/m ³ Core density may vary by + or - 5%
Water Vapour Transmission	Water Vapour Transmission tested by BRANZ in accordance with AS2498.5. Water vapour transmission rate (WVT): 11.4 g/m ² /24h (equivalent to 132.1 µg/m ² -s) Branz Test Report: DC21639-01-1
Water Absorption	Water absorption tested by BRANZ in accordance with AS2498.8 Negligible (<0.20% by mass) Branz Test Report: DC21639-01-1
External steel Facing	0.55mm (0.59mm optional) BMT COLORSTEEL® CP Grade Prepainted Galvanised Steel G300 Z275 consistent with AS 1397:2021. or: 0.55mm (0.59mm optional)BMT COLORSTEEL® MAXAM® G300 AM150 consistent with AS 1397:2021. The correct steel is dependent on the environmental category and corrosion zone, please consult Metecno NZ.
Internal steel Facing	0.55mm (0.59mm optional) BMT COLORSTEEL® CP Grade Prepainted Galvanised Steel G300 Z275 consistent with AS 1397:2021. or: 0.55mm (0.59mm optional)BMT COLORSTEEL® MAXAM® G300 AM150 consistent with AS 1397:2021. Please consult Metecno NZ for correct steel selection for specific application.
Cover Width	1000mm
Length	Maximum length 24m. Lengths may be restricted by panel thickness and transportation to site.
Thickness	50mm, 75mm, 100mm, 125 and 150mm.
Fire Resistant Core	Yes
Combustibility	Combustible
Environment	Non Ozone Depleting Potential (ODP)



Guidance Notes– Loadspan Tables

General

The following loadspan tables must be read in conjunction with the following notes.

- Steel material used in testing was 0.55mm BMT G300.
- **Without Washers:** Fixings used in test were 14g washer head screws with 14.8mm diameter heads at 250mm spacing. Embedment of the screws into purlins, studs or girts should be determined on a case-by-case basis and did not form part of the testing.
- **With Washers:** Fixings used in test were 14g washer head screws with 14.8mm diameter heads at 250mm spacing and 0.95mm BMT profiled steel washers. Embedment of the screws into purlins, studs or girts should be determined on a case-by-case basis and did not form part of the testing.
- Single span is simply supported and shear limiting.
- Double span (Continuous span) is simply supported and shear limiting.

Span Table Selection

Panel properties and screw performance have been used to derive span tables for a single simply supported span. The values given are for:

- SLS – the minimum pressure for a panel deflection of span/150, or the local deformation limit at the screw head.
- ULS – The panel flexural strength or the screw pull-over strength for uplift, or the panel strength for positive pressure. Under positive pressure it is assumed that panels bear on the purlin or girt surface.
- Self weight has not been allowed for in the tables, so for walls, the pressures can be used directly. For roofs, self weight G should be allowed for; in uplift cases the design pressure for wind will be higher than tabulated, while for positive pressures the design wind pressure will be lower, as follows:

Roofing SLS – Include the self weight to get the allowable wind pressure;

$$\begin{aligned}\text{Wind up allowable (-ve)} &= \text{table value (-ve)} - G \\ \text{Wind down allowable (+ve)} &= \text{table value (+ve)} - G\end{aligned}$$

Roofing ULS – Include the factored self weight to get the ultimate wind pressure;

$$\begin{aligned}\text{Wind up ULS (-ve)} &= \text{table value (-ve)} - 0.9xG \\ \text{Wind down ULS (+ve)} &= \text{table value (+ve)} - 1.2xG\end{aligned}$$

- For span arrangements, such as continuous spans, or cantilever ends, structural analysis and specific design is recommended. An approximate design can be achieved by using the table values for a two-span situation, but doubling the screw force at the centre support. For three or more spans, the tabulated pressure could be multiplied by 1.08 times to get an approximate design pressure. Screw forces would again be double the single span case.
- Example of self weight adjustment. A 100 mm RFW 1000 panel is to span 4 metres (single span). The tabulated resistances, without washers, are -2.6 and +4.0 kPa SLS and -2.5 and 4.6 kPa ULS. The uplift resistance is limited by the screws, while the panel itself governs the positive pressure cases. The panel self weight is 0.135 kPa (13.8 kg/m²).

For SLS suction (uplift), the wind pressure resistance will be $-2.6 - 0.1427 = -2.7427$ kPa.

For SLS positive pressure, the design wind resistance would be $+4.0 - 0.1427 = +3.8573$ kPa.

This is assuming that the span/150 deflection limit applies to G+W.

For ULS suction (uplift), the wind pressure resistance will be $-2.5 - 0.9 \times 0.1427 = -2.62843$ kPa.

For ULS positive pressure, the design wind resistance would be $+4.6 - 1.2 \times 0.1427 = +4.42876$ kPa.

Guidance Notes– Loadspan Tables

Panel Stiffness and Panel Flexural Resistances

The results have been depreciated as per AS/NZS 1170.0 Table B1 and the NZMRM Code of Practice. For these tests a minimum SLS CoV of 5% and ULS Cov of 10% were adopted, as per the NZMRM Code of Practice for roofing. For design use, a lower bound SLS stiffness EI was derived, with mean test stiffnesses about 120% of this. For ULS a limiting moment was derived for each load direction. The ULS moment below includes panel self-weight as tested.

Thickness (mm)	SLS Lower Bound Stiffness EI kNm ² /m		ULS ϕMn kNm/m	
	Ribs in Tension	Ribs in Compression	Ribs in Tension	Ribs in Compression
50	158	163	3.73	4.72
75	216	250	4.26	7.15
100	444	497	5.33	9.63
150	768	809	7.40	14.0

Specific Engineering Design

Panel stiffnesses EI are provided to allow modelling to determine SLS deflection performance. Lower bound and average EI values are provided so designers can check sensitivity. The panel local deformation around fasteners may also govern SLS conditions.

- Panel failure flexural resistance oMn are provided in both hogging and sagging to allow ULS design. These values are not allowing for panel self weight.
- Screw pull-over strengths are provided for both plain screws and those with profiled washers, so designers can assess the fixing requirements for ULS conditions. The plain screw tested had 14.8 mm diameter washer heads. These were 14g screws. Data is not available for other types of screws. The profiled washers used in tests were 50 mm long along the rib direction.

Panel Weight and Mass

Thickness	Panel Mass* (kg/m ²)	Weight (kPa)
50	12.60	0.124
75	13.58	0.133
100	14.55	0.1427
125	15.53	0.152
150	16.5	0.162

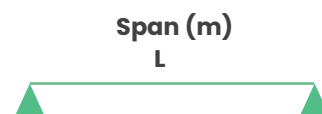
These are mean values. Actual values could vary +/- 0.1 kg/m² * Steel gauges may affect overall mass; actual mass may vary by ±10%

Loadspan Tables -single span Without Washers

IMPORTANT:

Loadspan tables below must be read in conjunction with the guidance notes on pages 12 and 13 of this document.

Without Washers.



Single Span -Serviceability Limit State (SLS) Without Washers

Single Span Maximum SLS kPa (m)														
Thickness (mm)	Load Type	0.55mm BMT G300												
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
50	Pressure	10	6.7	5.0	4.0	3.1	2.0	1.3	0.92	0.67	0.50	0.39		
	Suction	-10	-6.7	-5.0	-4.0	-3.0	-1.9	-1.3	-0.89	-0.65	-0.49	-0.37		
75	Pressure	15	10	7.5	6.0	4.7	3.0	2.0	1.4	1.0	0.77	0.59		
	Suction	-10	-7.1	-5.3	-4.3	-3.6	-2.6	-1.7	-1.2	-0.88	-0.66	-0.51		
100	Pressure	20	13	10	8.0	6.7	5.7	4.0	2.8	2.0	1.5	1.2	0.93	0.74
	Suction	-10	-7.1	-5.3	-4.3	-3.6	-3.0	-2.6	-2.4	-1.8	-1.4	-1.0	-0.83	-0.66
125	Pressure	25	17	12	10	8.3	7.1	5.2	3.7	2.7	2.0	1.6	1.2	0.97
	Suction	-10	-7.1	-5.3	-4.3	-3.6	-3.0	-2.7	-2.4	-2.1	-1.9	-1.4	-1.1	-0.9
150	Pressure	30	20	15	12	10	8.6	6.5	4.6	3.3	2.5	1.9	1.5	1.2
	Suction	-10	-7.1	-5.3	-4.3	-3.6	-3.0	-2.7	-2.4	-2.1	-1.9	-1.8	-1.4	-1.2

Single span -Ultimate Limit State (ULS) Without Washers

Single Span Maximum ULS kPa (m)														
Thickness (mm)	Load Type	0.55mm BMT G300												
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
50	Pressure	10	6.7	5.0	4.0	3.3	2.9	2.3	1.8	1.5	1.2	1.0		
	Suction	-10	-6.7	-5.0	-4.0	-3.2	-2.3	-1.8	-1.4	-1.1	-0.94	-0.79		
75	Pressure	15	10	7.5	6.0	5.0	4.3	3.5	2.8	2.2	1.8	1.6		
	Suction	-15	-10	-7.5	-5.2	-3.6	-2.7	-2.0	-1.6	-1.3	-1.1	-0.9		
100	Pressure	20	13	10	8.0	6.7	5.7	4.6	3.6	2.9	2.4	2.0	1.7	1.5
	Suction	-20	-13	-9.8	-6.3	-4.4	-3.2	-2.5	-1.9	-1.6	-1.3	-1.1	-0.93	-0.80
125	Pressure	25	17	12	10	8.3	7.1	5.7	4.5	3.6	3.0	2.5	2.2	1.9
	Suction	-20	-13	-10	-7.6	-5.2	-3.9	-3.0	-2.3	-1.9	-1.6	-1.3	-1.1	-1.0
150	Pressure	30	20	15	12	10	8.6	6.8	5.3	4.3	3.6	3.0	2.6	2.2
	Suction	-20	-13	-10	-8.1	-6.1	-4.5	-3.5	-2.7	-2.2	-1.8	-1.5	-1.3	-1.1

Loadspan Tables -single span With Washers

IMPORTANT:

Loadspan tables below must be read in conjunction with the guidance notes on pages 12 and 13 of this document.

With Washers.



Single Span -Serviceability Limit State (SLS) With Washers

Single Span Maximum SLS kPa (m)														
Thickness (mm)	Load Type	0.55mm BMT G300												
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
50	Pressure	10	6.7	5.0	4.0	3.1	2.0	1.3	0.92	0.67	0.50	0.39		
	Suction	-10	-6.7	-5.0	-4.0	-3.0	-1.9	-1.3	-0.89	-0.65	-0.49	-0.37		
75	Pressure	15	10	7.5	6.0	4.7	3.0	2.0	1.4	1.0	0.77	0.59		
	Suction	-15	-10	-7.5	-5.5	-4.1	-2.6	-1.7	-1.2	-0.88	-0.66	-0.51		
100	Pressure	20	13	10	8.0	6.7	5.7	4.0	2.79	2.0	1.53	1.2	0.93	0.74
	Suction	-18	-12	-9.2	-7.3	-6.1	-5.2	-3.5	-2.5	-1.8	-1.4	-1.0	-0.83	-0.66
125	Pressure	25	16	12	10	8.3	7.1	5.2	3.7	2.7	2.0	1.6	1.2	0.97
	Suction	-18	-12	-9.2	-7.3	-6.1	-5.2	-4.6	-3.4	-2.5	-1.9	-1.4	-1.1	-0.90
150	Pressure	30	20	15	12	10	8.6	6.5	4.5	3.3	2.5	1.9	1.5	1.2
	Suction	-18	-12	-9.2	-7.3	-6.1	-5.2	-4.6	-4.1	-3.1	-2.4	-1.8	-1.4	-1.1

Single span -Ultimate Limit State (ULS) With Washers

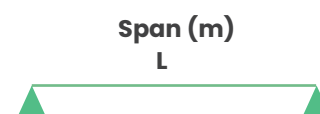
Single Span Maximum ULS kPa (m)														
Thickness (mm)	Load Type	0.55mm BMT G300												
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
50	Pressure	10	6.7	5.0	4.0	3.3	2.9	2.3	1.8	1.5	1.2	1.0		
	Suction	-10	-6.7	-5.0	-4.0	-3.2	-2.3	-1.8	-1.4	-1.1	-0.94	-0.79		
75	Pressure	15	10	7.5	6.0	5.0	4.3	3.5	2.8	2.2	1.8	1.6		
	Suction	-15	-10	-7.5	-5.2	-3.6	-2.7	-2.0	-1.6	-1.3	-1.1	-0.90		
100	Pressure	20	13	10	8.0	6.7	5.7	4.6	3.6	2.9	2.4	2.0	1.7	1.5
	Suction	-20	-13	-9.8	-6.3	-4.4	-3.2	-2.5	-1.9	-1.6	-1.3	-1.1	-0.93	-0.80
125	Pressure	25	16	12	10	8.3	7.1	5.7	4.5	3.6	3.0	2.5	2.2	1.9
	Suction	-25	-16	-12	-7.6	-5.2	-3.9	-3.0	-2.3	-1.9	-1.6	-1.3	-1.1	-0.96
150	Pressure	30	20	15	12	10	8.6	6.8	5.3	4.3	3.6	3.0	2.6	2.2
	Suction	-30	-20	-15	-8.8	-6.1	-4.5	-3.5	-2.7	-2.2	-1.8	-1.5	-1.3	-1.1

Loadspan Tables -Double Span Without Washers

IMPORTANT:

Loadspan tables below must be read in conjunction with the guidance notes on pages 12 and 13 of this document.

Without Washers.



Double Span -Serviceability Limit State (SLS) Without Washers

Double Span Maximum SLS kPa (m)														
Thickness (mm)	Load Type	0.55mm BMT G300												
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
50	Pressure	8.0	5.3	4.0	3.2	2.7	2.3	2.0	1.8	1.6	1.2	0.92	0.72	
	Suction	-4.3	-2.8	-2.1	-1.7	-1.4	-1.2	-1.1	-1.0	-0.85	-0.77	-0.71	-0.65	
75	Pressure	12	8.0	6.0	4.8	4.0	3.4	3.0	2.7	2.3	1.7	1.3	1.1	
	Suction	-4.3	-2.8	-2.1	-1.7	-1.4	-1.2	-1.1	-1.0	-0.85	-0.77	-0.71	-0.65	
100	Pressure	16	11	8.0	6.4	5.3	4.6	4.0	3.6	3.2	2.9	2.7	2.1	1.7
	Suction	-4.3	-2.8	-2.1	-1.7	-1.4	-1.2	-1.1	-1.0	-0.85	-0.77	-0.71	-0.65	-0.61
125	Pressure	20	13	10	8.0	6.7	5.7	5.0	4.4	4.0	3.6	3.3	2.8	2.3
	Suction	-4.2	-2.8	-2.1	-1.7	-1.4	-1.2	-1.1	-1.0	-0.85	-0.77	-0.71	-0.65	-0.61
150	Pressure	24	16	12	9.6	8.0	6.9	6.0	5.3	4.8	4.4	4.0	3.5	2.8
	Suction	-4.2	-2.8	-2.1	-1.7	-1.4	-1.2	-1.1	-1.0	-0.85	-0.77	-0.71	-0.65	-0.61

Double span -Ultimate Limit State (ULS) Without Washers

Double Span Maximum ULS kPa (m)														
Thickness (mm)	Load Type	0.55mm BMT G300												
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
50	Pressure	8.0	5.3	4.0	3.2	2.7	2.3	1.8	1.4	1.1	0.94	0.79	0.67	
	Suction	-8.1	-5.4	-4.0	-3.2	-2.7	-2.3	-2.0	-1.8	-1.5	-1.2	-1.0	-0.86	
75	Pressure	12	8.0	6.0	4.8	3.6	2.7	2.0	1.6	1.3	1.1	0.90	0.77	0.66
	Suction	-8.1	-5.4	-4.0	-3.2	-2.7	-2.3	-2.0	-1.8	-1.6	-1.5	-1.3	-1.2	-1.1
100	Pressure	16	11	8.0	6.4	4.4	3.2	2.5	1.9	1.6	1.3	1.1	0.93	0.80
	Suction	-8.1	-5.4	-4.0	-3.2	-2.7	-2.3	-2.0	-1.8	-1.6	-1.5	-1.3	-1.2	-1.1
125	Pressure	20	13	10	8.0	5.2	3.9	3.0	2.3	1.9	1.6	1.3	1.1	0.96
	Suction	-8.1	-5.4	-4.0	-3.2	-2.7	-2.3	-2.0	-1.8	-1.6	-1.5	-1.3	-1.2	-1.1
150	Pressure	24	16	12	8.8	6.1	4.5	3.5	2.7	2.2	1.8	1.5	1.3	1.1
	Suction	-8.1	-5.4	-4.0	-3.2	-2.7	-2.3	-2.0	-1.8	-1.6	-1.5	-1.3	-1.2	-1.1

Loadspan Tables -Double Span With Washers

IMPORTANT:

Loadspan tables below must be read in conjunction with the guidance notes on pages 12 and 13 of this document.

With Washers.



Double span -Serviceability Limit State (SLS) With Washers

Double Span Maximum SLS kPa (m)														
Thickness (mm)	Load Type	0.55mm BMT G300												
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
50	Pressure	8.0	5.3	4.0	3.2	2.7	2.3	2.0	1.8	1.6	1.2	0.92		
	Suction	-7.3	-4.9	-3.7	-2.9	-2.4	-2.1	-1.8	-1.6	-1.5	-1.2	0.92		
75	Pressure	12	8.0	6.0	4.8	4.0	3.4	3.0	2.7	2.4	1.7	1.3	1.1	0.84
	Suction	-7.3	-4.9	-3.7	-2.9	-2.4	-2.1	-1.8	-1.6	-1.5	-1.3	-1.2	-1.0	-0.80
100	Pressure	16	11	8.0	6.4	5.3	4.6	4.0	3.6	3.2	2.9	2.7	2.1	1.7
	Suction	-7.3	-4.9	-3.7	-2.9	-2.4	-2.1	-1.8	-1.6	-1.5	-1.3	-1.2	-1.1	-1.0
125	Pressure	20	13	10	8.0	6.7	5.7	5.0	4.4	4.0	3.6	3.3	2.8	2.3
	Suction	-7.3	-4.9	-3.7	-2.9	-2.4	-2.1	-1.8	-1.6	-1.5	-1.3	-1.2	-1.1	-1.0
150	Pressure	24	16	12	9.6	8.0	6.9	6.0	5.3	4.8	4.4	4.0	3.5	2.8
	Suction	-7.3	-4.9	-3.7	-2.9	-2.4	-2.1	-1.8	-1.6	-1.5	-1.3	-1.2	-1.1	-1.0

Double Span -Ultimate Limit State (ULS) With Washers

Double Span Maximum ULS kPa (m)														
Thickness (mm)	Load Type	0.55mm BMT G300												
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
50	Pressure	8.0	5.3	4.0	3.2	2.7	2.3	1.8	1.4	1.1	0.94	0.79		
	Suction	-8.0	-5.3	-4.0	-3.2	-2.7	-2.3	-2.0	-1.8	-1.5	-1.2	-1.0		
75	Pressure	12	8.0	6.0	4.8	3.6	2.7	2.0	1.6	1.3	1.1	0.90	0.77	0.66
	Suction	-12	-8.0	-6.0	-4.8	-4.0	-3.4	-3.0	-2.7	-2.2	-1.8	-1.6	-1.3	-1.1
100	Pressure	16	11	8.0	6.4	4.4	3.2	2.5	1.9	1.6	1.3	1.1	0.93	0.80
	Suction	-14	-9.4	-7.1	-5.7	-4.7	-4.0	-3.5	-3.1	-2.8	-2.3	-1.9	-1.7	-1.4
125	Pressure	20	13	10	8.0	5.2	3.9	3.0	2.3	1.9	1.6	1.3	1.1	0.96
	Suction	-14	-9.4	-7.1	-5.7	-4.7	-4.0	-3.5	-3.1	-2.8	-2.6	-2.3	-2.0	1.7
150	Pressure	24	16	12	8.8	6.1	4.5	3.5	2.7	2.2	1.8	1.5	1.3	1.1
	Suction	-14	-9.4	-7.1	-5.7	-4.7	-4.0	-3.5	-3.1	-2.8	-2.6	-2.4	-2.2	-2.0



General Notes

Compliance to New Zealand Building Code

TECHNICAL LITERATURE

Please refer to the Building Product Information sheet for compliance of Metecno's RFW 1000 insulated panel to the New Zealand Building Code and for scope and limitations of use.

Metecno's product literature can be downloaded from:

www.metecno.co.nz

Technical Support

The guidance provided in Metecno's technical documentation reflects recognised industry practices; however, it should not be considered a complete source of all information required for design or installation. Because the performance of any Metecno system relies on factors beyond our control—such as design decisions, installation quality, and site conditions—Metecno accepts no liability for how these recommendations are applied or for the performance of the system in any specific situation, including meeting the requirements of the NZBC or any applicable laws, regulations, or standards.

It is the responsibility of the project's designer to confirm that the details and recommendations within Metecno's technical documents are appropriate for the intended application and to undertake any necessary project-specific design.

Contact Metecno for Technical Support.

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