

BPIS

Building Product Information Sheet

Version 1.0 July 2026

Cool Room Panel CR 1100

Product Name

Metecno – CR 1100

Product Line

N/A

Product Description

Metecno's CR 1100 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® MAXAM® or ® COLORSTEEL® CP depending on application and environmental categories.

Intended Use

Metecno's CR 1100 insulated panels comprise of a PIR (Polyisocyanurate) fire resistant core which is non-hygroscopic and has high performing thermal properties making it an excellent panel for use in controlled environments; coolstores, freezers, process and clean rooms.

Colours

CR 1100 insulated panels are manufactured standard in COLORSTEEL® Titania, other colour options are available and steel swatches are available on request.

*Ebony is only available for interior use due to heat build up.

Refer to Metecno's Colour Guide.
www.metecno.co.nz



Material Options

EXTERNAL SKIN:

0.55mm BMT (0.59mm optional) COLORSTEEL® CP Grade Prepainted Galvanised Steel G300 Z275 consistent with AS 1397:2021.

or:

0.55mm (0.59mm optional) BMT COLORSTEEL® MAXAM® with G300 AM150 consistent with AS 1397:2021.

The correct steel is dependent on the environmental category and corrosion zone, please consult Metecno NZ.

INTERNAL SKIN:

0.55mm (0.59mm optional) COLORSTEEL® CP Grade Prepainted Galvanised Steel G300 Z275 consistent with AS 1397:2021.

or:

0.55mm (0.59mm optional) COLORSTEEL® MAXAM® G300 AM150 consistent with AS 1397:2021.

Please consult Metecno NZ for correct steel selection for specific application.

BPIS Inclusions & Exclusions

This BPIS includes Metecno's CR 1100 Insulation panels only. All associated fixings, tapes and other items that are required for installing CR 1100 insulation are not the responsibility of Metecno NZ. Refer to supporting Information.

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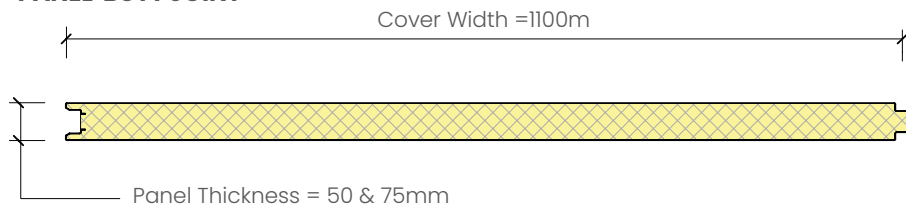
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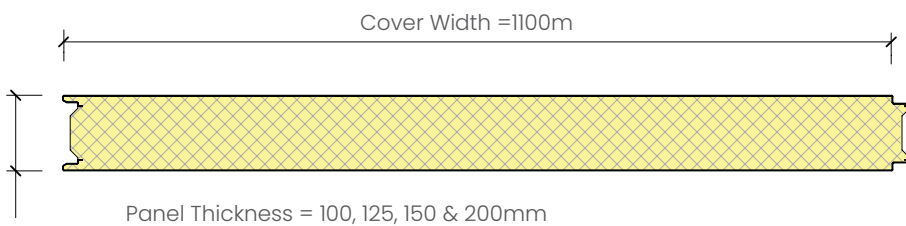
Product Identifier

PANEL BUTT JOINT



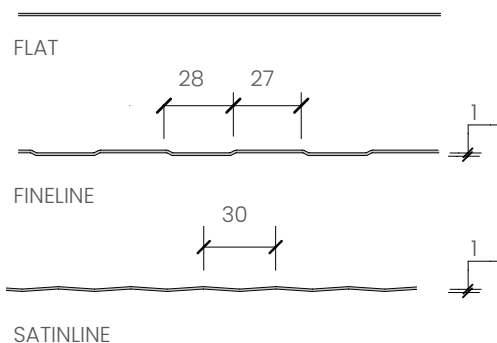
PANEL INTERLOCKING JOINT

Interlocking joints enhance insulation by minimising thermal bridging and air leakage—recommended for maintaining temperature control in coolrooms and freezers, where energy efficiency directly impacts performance and operating costs.



Dimensions, cover and sheet widths are all nominal and may vary with manufacturing and installation tolerances. Line drawings are indicative only and should not be scaled, if other dimensions are required please consult Metecno.

EXTERNAL & INTERNAL PROFILE OPTIONS:



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CR 1100 Cool Room Panel if designed, installed and maintained with Metecno's product literature will comply or contribute to the following relevant building code clauses.

Relevant Building Code Clauses	
B1 STRUCTURE	B1.3.1, B1.3.2, B1.3.3(a)(h), B1.3.4
B2 DURABILITY	B2.3.1 (b)
C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE	C3.4 (a)
E2 EXTERNAL MOISTURE	E2.3.2 (contributes to), E.2.3.7 (contributes to)
E3 INTERNAL MOISTURE	E3.3.5 (contributes to)
F2 HAZARDOUS BUILDING MATERIALS	F2.3.1
G3 FOOD PREPARATION AND PREVENTION OF CONTAMINATION	G3.3.2(a)
H1 ENERGY EFFICIENCY	H1.3.1(a)(b)

Statement on how the building product is expected to contribute to compliance:

Metecno's CR 1100 insulated panels and associated flashings used in combination with fasteners as accredited by NZMRM as complying to their products performance standards, will contribute to meeting the following performance requirements of the New Zealand Building Code.

B1.3.1, B1.3.2, B1.3.3(a)(h), B1.3.4

Metecno has conducted loadspan testing on the CR 1100 Cool Room Panel, in accordance with procedures described in NZMRM –Metal Roofing and Wall Cladding Code of Practice. Compliance is by comparison with B1/AS1 and B1/VM1.

The panel design shall be specified by the certifying engineer as determined from the Metecno's CR 1100 load span tables and fixing patterns. The certifying engineer must satisfy themselves that the above information pertaining to the span capability and performance of Metecno's CR 1100 Insulated Panel and the correct selection of product thickness, fastener is specified for the specific project and satisfies the NZBC requirements.

CR 1100 Cool Room Panel, product Information is available for download from www.metecno.co.nz

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B2.3.1 (b)

Metecno's CR 1100 Cool Room Panels are manufactured using:
0.55mm (0.59mm optional) BMT G300 COLORSTEEL® CP Grade Prepainted Galvanised Steel. Metallic Coating is Z275 consistent with AS 1397:2021. Tolerances are consistent with the requirements of AS/NZS 1365:1996. COLORSTEEL® CP is a Product Type 3, consistent with AS/NZS 2728:2013 and therefore is consistent with the NZ Building Code for use in environments as described in Acceptable Solution E2/AS1 Table 20. Tolerances are consistent with the requirements of AS/NZS 1365:1996.

or:

0.55mm BMT G300 COLORSTEEL® MAXAM®. Metallic coating is AM 150 consistent with AS 1397:2021. COLORSTEEL® MAXAM® is a Product Type 6 consistent with AS/NZS 2728:2013 and therefore is consistent with the NZ Building Code for use in environments as described in Acceptable Solution E2/AS1 Table 20. Tolerances are consistent with the requirements of AS/NZS 1365:1996, is consistent with AS 1397:2021.

The correct steel is dependent on the environmental category, corrosion zone and specific application, please consult Metecno NZ.

C3.4 (a)

Metecno's CR 1100 100mm thick insulated panel has been tested with aluminium angles in accordance with ISO 9705:2003 (R2016) and has achieved a Material Group Classification Number of 2s.

Refer to Branz test Report for installation requirements and fire performance.
Refer to Metecno for Group Classification Number for steel flashings and angles.

E2.3.2 (contributes to), E.2.3.7(contributes to)

Metecno's CR 1100 Cool Room Panels flashing cover dimensions are alternative details, contributing to compliance with the "4 D's" (Deflection, Draining, Drying and Durability). Compliance is achieved by comparison with E2/AS1 and NZMRM Code of Practice and in service history of insulated panels and the detailing thereof for use as a Cool Room panel.

E3.3.5 (contributes to)

Metecno's CR 1100 Cool Room Panels are constructed from two steel skins with a PIR Core. The steel skins are impervious and the PIR core has a closed cell structure, Metecno's CR 1100 panels will contribute to compliance of E3.3.5. -Architects & Designers are responsible to ensure compliance.

F2.3.1

COLORSTEEL® MAXAM® and COLORSTEEL CP GRADE ® will meet the performance requirements of F2, 2.3.1.

G3.3.2(a)

Metecno's CR 1100 Cool Room Panels are constructed from two steel skins with a PIR Core. The steel skins are impervious and the PIR core has a closed cell structure, Metecno's CR 1100 panels will comply with G3.3.2(a).
-Installers are responsible to ensure installation meets the requirements.

H1.3.1(a)(b)

Metecno's CR 1100 panels have been tested in accordance with AS/ NZS 4859.1 & 2:2018. Declared and Total R values. Demonstration of compliance is achieved by testing and calculation with verification method H1/VM2.
-Architects & Designers are responsible to ensure compliance.

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Limitations on use:

- Metecno's CR 1100 insulated panel should be used in accordance and within the bounds of Metecno's product literature, unless supported by design from a suitably qualified design Engineer.
- Fire engineers must satisfy themselves and sign off that the product is suitable for use.
- Metecno's CR 1100 insulated panels can be used on SED projects if within the scope of NZMRM Code of Practice for flashing cover dimensions and suitability of use and where the design loads are within the scope of the products performance.
- Metecno CR 1100 insulated panels when used as an external wall are restricted to a maximum building height of 10m. Refer to Metecno's Product Brochure, Installation Details and loadspan and fixing tables for product limitations.
- Fixings of Metecno's CR 1100 panel into SED projects are outside the scope of NZMRM Code of Practice and will require sign off from a professional engineer.
- CR 1100 insulated panels to be used in situations where there are no dissimilar metals or compatibility issues as per NZMRM Code of Practice and Table 20 E2/AS1.
- Only use product in environmental categories suitable for the steel product used. Refer Metecno's Maintenance guide and product literature for more information.
- CR 1100/PIR panel is designed for walls, and ceilings only. Any other applications please consult Metecno.

Installation Requirements

- Installation should be carried out by a suitably qualified practitioner.
- Installation as per Metecno's Installation Details and Installation Guide.

Design Requirements

- Buildings that comply with NZS 3604:2011 and wall cladding for building height up to three storeys or 10m.
- For SED building height is limited to 10m in height for CR 1100 insulated panel.
- The support type and spacing shall be specified by a suitably qualified Design Engineer and determined from the Loadspan Tables.
- Buildings designed in accordance with NZS 1170:2:2002.
- Timber framed construction in accordance with NZS 3604:2011.
- Steel framed structures in accordance with NASH Standard Part 1:2016 Design Criteria - Alternative Solution and NASH Standard Part 2:2019 Light Steel Framed Buildings.
- Under certain light conditions Metecno's CR 1100 insulated panel may show an undulating surface which can vary depending on exterior profile and steel gauge selection as well as the environment's varying light conditions.
- Fasteners for Metecno's CR 1100 insulated panels must comply with NZMRM Code of Practice, and be compatible with the supporting substrate. Refer to Metecno's Installation Details for specific requirements.
- The durability of fasteners should equal or exceed that of the material being fastened, and the fastener metal or coating must be compatible with the cladding material if in contact. Fasteners used on pre-painted steel products should be factory colour matched before installation.
- All flashings, extrusions and accessories must be compatible with COLORSTEEL® MAXAM and COLORSTEEL® CP GRADE as per NZMRM Code of Practice.
- Maximum length of CR 1100 insulated panel is 24m. Lengths may be restricted by panel thickness and transportation to site. Please check with Metecno.

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Is The Building Product Line subject to a warning or ban under Section 26 of the Building Act 2004:

NO

Metecno products are not subject to a warning or ban under the Building Act 2004.

Maintenance requirements

Refer to Metecno's Maintenance guide for maintenance requirements, available for download from:

www.metecno.co.nz

Legal Entity:

Metecno New Zealand Limited

NZBN: 9429052168369

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Auckland 2013, New Zealand

T: 09 274 0408

Manufacturing Location:

Metecno

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10 Earthmover Crescent,
Burbush 3200, Hamilton,
New Zealand

T: 07 849 1400

sales@metecno.co.nz

Supporting Information

The following documents can support demonstration of compliance of Metecno's CR 1100 insulated panel with the New Zealand Building Code.

BUILDING ACT 2004

www.legislation.govt.nz

NZBC RELEVANT CLAUSES AND ACCEPTABLE SOLUTIONS

NZS 3604:2011

www.building.govt.nz

CITED STANDARDS

www.standards.govt.nz

NZMRM CODE OF PRACTICE

www.metalroofing.org.nz

METECNO

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CR 1100 Product Information Guide

Colour Guide

Maintenance Guide

Installation Guide

Available for download from:

www.metecno.co.nz

NEW ZEALAND STEEL –COLORSTEEL®

COLORSTEEL®, for more information visit:

<https://www.colorsteel.co.nz/resources/downloads-and-brochures/>

New Zealand Steel's Quality management system conforming to ISO 9001:2015 and assessed by Telarc. New Zealand's Steel's Environmental Management system conforming to ISO 14001:2015

www.nzsteel.co.nz

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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**

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

Disclaimer

This Building Product Information Sheet must be read in conjunction with all cited documents. Metecno NZ Limited states that the product will, if installed in accordance with the technical data, specifications, and advice prescribed by Metecno NZ Limited and New Zealand Steel will comply with the relevant provisions of the Building Code and satisfy our obligation to satisfy Section: S14G of the Building Act 2004.

It remains the responsibility of all other professional parties to ensure they satisfy their own obligation of the Building Act 2004. As part of Metecno NZ Limited policy of continued improvement, final specifications may vary from those contained in this publication.

The company reserves the right at any time and without notice to change the design, materials or features and withdraw products from the market without incurring any liability whatsoever.

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