



COLORSTEEL®  
FOR  
INSULATED  
PANELS



# Peace of mind where performance is paramount

COLORSTEEL® for Insulated Panels has been specifically developed for insulated panel applications. It is comprised of either a traditional zinc-coated or Zinalume® steel substrate combined with a custom-formulated paint system.

The COLORSTEEL® substrate used in the manufacturing process of coolroom insulated panels is galvanised G300 Z275 AS1397 steel.

The COLORSTEEL® substrate used in the manufacturing process of interior/exterior structural insulated panels is Zinalume® G550 or G300 AZ150/AZ200 AS1397.



## Multiple colours to suit

While COLORSTEEL® Titania is the most common colour choice for coolroom panels, a wider colour range is available for interior and exterior panels. See your panel manufacturer for advice.

## Handling & installation

Insulated panel systems are very easy to install.

It is important that all COLORSTEEL® for Insulated Panels is carefully handled during transport and fabrication to avoid damaging the high quality surface finish. Examine the material carefully when it is delivered and report any faults to the supplier immediately.

If the product is to be stored for any length of time prior to manufacturing or installation, we recommend dry, well-ventilated conditions. Incorrect storage may irreparably damage the coating system.



## Important design considerations

**Some design elements that are well worth taking note of:**

- The lightweight nature of a composite panel, coupled with structural capabilities, may make an internal frame unnecessary when undertaking smaller projects (consult your designer for advice).
- In a coolroom and other insulated panel designs, moisture can often be present. It is vital to the overall corrosion performance that water be allowed to drain freely from a composite panel. This is particularly critical at the base of the panel, where poor detailing can allow water to come into contact with the foam core. Once moisture is trapped within a panel, corrosion will be accelerated.
- A dwarf masonry wall should be included in any coolroom design. This will allow water to drain away and also protect the base of the coolroom wall.
- The bottom channels of any walls should be manufactured from compatible materials and be designed to prevent water ponding at the base of the panel.
- The run-off from condensers should not be allowed to discharge via copper pipes over COLORSTEEL® products. All run-off should be diverted away from the steel surface.

## Best practice for coolrooms

**We advise you to follow these examples of best practice in relation to COLORSTEEL® for Insulated Panels:**

- Cleaning chemicals used in coolrooms should only be used within prescribed concentrations and contact durations.
- Soft nylon bristle brooms and water pressure of less than 400psi (2760kPa) is recommended.
- Regular inspection of slip joints and the general detailing of the insulated panels will highlight problems before they become major concerns.
- It is important to monitor sealant performance at the base of the panel to prevent water ingress.
- Watch out for any bulging panels. This could indicate that moisture has entered the panel and expanded once it has frozen.
- Bulging panels could be the result of a poorly sealed slip joint, a gap between the bottom channel and the panel, or a panel that has been punctured.
- Consider ways of preventing damage to coolroom walls while handling stock in and around the coolroom.
- Regular inspection and maintenance will extend the life of the steel panels.

Please note, this information is intended as a guide only and we strongly recommend that you seek professional advice in all instances and carefully consider all related health & safety matters.



For more information about COLORSTEEL® products  
call **0800 697 833** or visit **colorsteel.co.nz**

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