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COLORBOND® Intramax® steel for coolroom panels

Introduction

BlueScope's COLORBOND[®] Intramax[®] steel has been specifically developed for use in the coolroom industry. COLORBOND[®] Intramax[®] steel comprises zinc-coated (G300S Z275) steel sheet coated with a highly durable paint system.

The specially formulated backing coat on COLORBOND[®] Intramax[®] steel has been developed for adhesion functionality, to form a strong bond with the foam core of the panel.

This Technical Bulletin outlines the guidelines for installation and good practice relating to coolrooms.

HACCP Certification

COLORBOND[®] Intramax[®] steel has undergone assessment by HACCP Australia (the recognised independent authority on food-safety programmes) and received certification as a FoodSafe product for ceiling and wall linings of food storage and processing facilities.

For further detail on HACCP certification, please visit: www.steel.com.au/intramax

WARNING:

- Use of COLORBOND[®] Intramax[®] steel is not a substitute for good hygiene practices.
- Food items should not be stored in intimate contact with COLORBOND[®] Intramax[®] steel.

Installation guide

Coolrooms manufactured from COLORBOND[®] Intramax[®] steel have the benefit of ease of installation. However, it is still recommended that you seek professional advice prior to designing and constructing your coolroom.

Listed below are some factors you should consider:

Consultation of:

Corrosion Technical Bulletin CTB-2 Galvanic Protection, and

Corrosion Technical Bulletin CTB-12 Dissimilar Metals, prior to choosing fittings.

- The lightweight nature of a composite panel coupled with an inherent structural capability may make the need for an internal frame for smaller projects obsolete.
- In a coolroom, moisture is ever present. It is VITAL to overall corrosion performance that water is allowed to drain freely away from a composite panel. This is especially the case at the base of the panel where poor detailing can allow water to become trapped in the foam core. Once moisture is trapped in a panel, corrosion will be accelerated.
- It is recommended that a dwarf masonry wall be incorporated in the coolroom design. This will allow water to drain away and also protect the base of the coolroom wall.
- Bottom channels of the walling should be manufactured from compatible materials and be designed to allow water to drain freely.

Each panel manufacturer has a different method of joining panels. Most employ a variation of a male/female slip joint. Both corrosion performance and the efficiency of the coolroom will be affected if particular attention is not paid to these joints which must fit snugly together to stop the ingress of moisture. This is especially important if the panels are to be washed down regularly. Mastic type vapour barriers are also recommended for some installations.

For specification details and tools please visit the following website:

https://steelselect.com.au/materials/colorbond-intramax-steel

IMPORTANT: It is a condition of a BlueScope warranty* applicable to your project, that your design, construction, installation and ongoing maintenance prevent moisture ingress into panel cores and joints throughout the life of the product. It is also a condition of the warranty* that the recommendations set out in this Technical Bulletin (and any other applicable Technical Bulletins) be complied with.

Good practice

For product durability the following good practice is recommended:

- Cleaning chemicals used for cleaning coolrooms must be compatible with COLORBOND[®] Intramax[®] steel
- Cleaning chemicals used for cleaning coolrooms should only be used in concentrations and contact durations, as prescribed by the chemical supplier. In any event, the concentration of the cleaning solution should not exceed 5%.
- Cleaning using soft nylon bristle brooms coupled with water pressures of less than 400psi (2760kPa) is recommended.
- Regular inspection of slip joints, base channels and the general detailing of the coolroom should allow detection of problems before they escalate into major concerns.
- Monitoring of sealant performance at the base of the panel is critical to prevent water ingress.

Consideration should be given to means of preventing damage to coolroom walling incurred whilst handling stock stored within and around the coolroom.

IMPORTANT: Once moisture has entered the panel, it will expand if frozen, causing the panel to bulge. This may cause the seals to be broken and moisture-laden air to enter the panel, potentially causing the panel to bulge further, greatly diminishing the efficiency of the coolroom.

Bulging of panels could indicate that moisture has entered the panel through the following means:

- a poorly sealed joint
- a gap that has developed between the bottom channel and the panel
- a panel has been punctured (for example by forklift tines)

Related BlueScope Technical Bulletins

<u>Corrosion Technical Bulletin CTB-2</u> Galvanic protection Corrosion Technical Bulletin CTB-12 Dissimilar metals



To ensure you have the most current information

1800 800 789

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* Warranties are subject to exclusions, application and eligibility criteria. For full terms and conditions and to determine the eligibility of your product for the warranty visit <u>www.bluescopesteel.com.au/warranties</u> or contact Steel Direct. The information and advice contained in this Technical Bulletin ('Bulletin') is of a general nature only and has not been prepared with your specific needs in mind. You should always obtain specialist advice to ensure that the materials, approach and techniques referred to in this Bulletin meet your specific requirements. BlueScope Steel Limited makes no warranty as to the accuracy, completeness or reliability of any estimates, opinions or other information contained in this Bulletin and to the maximum extent permitted by law, BlueScope Steel Limited disclaims all liability and responsibility for any loss or damage, direct or indirect, which may be suffered by any person acting in reliance on anything contained in or omitted from this Bulletin. COLORBOND®, Intramax[®], BlueScope Steel Limited. © 2020 BlueScope Steel Limited ABN 16 000 011 058. All rights reserved.