



MAINTENANCE GUIDE

ROOFING AND CLADDING PANELS

ROOFING PANELS

For roofing panels, COLORSTEEL® CP, COLORSTEEL® ENDURA® or COLORSTEEL® MAXX®, depending on the environmental categories is used for the manufacture of:

- ThermoSpan (EPS)
- SUPIRSPAN (PIR)

CLADDING PANELS

For wall cladding panels, COLORSTEEL® CP, COLORSTEEL® ENDURA® or COLORSTEEL® MAXX®, depending on the environmental categories is used for the manufacture of:

- ThermoSpan (EPS)
- SUPIRSPAN (PIR)

ENVIRONMENTAL CATEGORIES

Environmental categories as defined in the New Zealand Building Code and as cross referenced in COLORSTEEL® Environmental Category and Product Maintenance Recommendations.

This can be downloaded from either:
www.metalcraftgroup.co.nz or from www.colorsteel.co.nz.

DURABILITY

When rollformed, installed and maintained in accordance with New Zealand Steel's recommendations, COLORSTEEL® CP™ or COLORSTEEL® ENDURA® or COLORSTEEL® MAXX® pre-painted steel is warranted by New Zealand Steel. This meets the performance requirements of NZBC B2.3(c) for a 15 year durability when used for the manufacture of roof and wall claddings.

COLORSTEEL® CP™ or COLORSTEEL® ENDURA® or COLORSTEEL® MAXX® products are expected to fade uniformly over the surface, to the extent of no more than 8 Hunterlab units on the Delta E scale, and have a chalk rating of 4 (AS 1580 481.1.11, 1998) after 10 years exposure.

MAINTENANCE REQUIREMENTS

- 6 monthly check to panels on sealants exposed to external environment.
- Compliance with requirements as per COLORSTEEL® Environmental Categories, Warranty & Product Maintenance Recommendations.

This can be downloaded from either:
www.metalcraftgroup.co.nz or from www.colorsteel.co.nz.



CONTROLLED ENVIRONMENT PANELS

CONTROLLED ENVIRONMENT PANELS

For controlled environment panels COLORSTEEL® Titania is used for the manufacture of:

- ThermoPanel (EPS)
- SUPIRPanel (PIR)

COLORSTEEL® CP coated steel has been specifically developed for food and related industries. The paint system consists of a steel substrate to which a customised, pre-painted finish system is applied.

The specially formulated backer coat has been developed to combine with readily available adhesives to form a strong bond with the panel core.

EXTERNAL WALLS AND ROOFS

Depending on the environmental categories as defined in the New Zealand Building Code and as cross referenced in New Zealand's Steel's Environmental Category and Product Maintenance Recommendations, specific NZ Steel product recommendations are given to suit each specific ISO category, as well as the required maintenance.

This can be downloaded from either:
www.metalcraftgroup.co.nz or from www.colorsteel.co.nz.

DURABILITY

When rollformed, installed and maintained in accordance with New Zealand Steel's recommendations, COLORSTEEL® CP pre-painted steel is warranted by New Zealand Steel. This meets the performance requirements of NZBC B2.3(c) for a 15 year durability when used for the manufacture of roof and wall claddings.

COLORSTEEL® CP products are expected to fade uniformly over the surface, to the extent of no more than 8 Hunterlab units on the Delta E scale, and have a chalk rating of 4 (AS 1580 481.1.11, 1998) after 10 years exposure.

MAINTENANCE REQUIREMENTS

- 6 monthly check to all controlled environment panels on sealants exposed to external environment.
- Compliance with requirements as per COLORSTEEL® Environmental Categories, Warranty & Product Maintenance Recommendations.

This can be downloaded from either:
www.metalcraftgroup.co.nz or from www.colorsteel.co.nz.



INSULATED PANEL DOORS

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Insulated panel doors installed by Metalcraft Insulated Panels are manufactured using controlled environment panels. Please refer to the controlled environment panel section in this maintenance guide for durability and maintenance requirements of controlled environment panels.

HINGED DOORS REQUIRE ADDITIONAL MAINTENANCE

2 monthly checks on the following items:

- Check hinges for wear and friction
- Check latching action
- Check key lock if fitted
- Check operation of heating cables on low temp doors, (there will be ice build up if cable has failed)
- Check rubber seal for condition and fit against wall when door is closed

CEILING SUSPENSION

- 6 monthly checks on the following items:
- Galvanised cables should be under tension
- Nuts should be done up
- Crimplugs are not damaged
- Mushroom fixings are not causing panel to be crushed (check from underneath)

ALUMINIUM EXTRUSIONS, FLASHINGS, SEALANTS

6 monthly checks on the following items:

- All fixings (rivets/screws) are not worn out or loose
- Powder-coating is not chipping
- COLORSTEEL® paint is not wearing off
- Sealants are not breaking up
- Sealants are not getting mouldy

DURABILITY

When rollformed, installed and maintained in accordance with New Zealand Steel's recommendations, COLORSTEEL® CP pre-painted steel is warranted by New Zealand Steel. This meets the performance requirements of NZBC B2.3(c) for a 15 year durability when used for the manufacture of roof and wall claddings.

COLORSTEEL® CP products are expected to fade uniformly over the surface, to the extent of no more than 8 Hunterlab units on the Delta E scale, and have a chalk rating of 4 (AS 1580 481.1.11, 1998) after 10 years exposure.

MAINTENANCE REQUIREMENTS

- 6 monthly check to all controlled environment panels on sealants exposed to external environment.
- Compliance with requirements as per COLORSTEEL® Environmental Categories, Warranty & Product Maintenance Recommendations.

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ADDITIONAL MAINTENANCE FOR SLIDING DOORS

2 monthly checks on the following items:

- Wear on nylon wheels
- Fixings of wheel bracket to door
- Wear of door track
- Track mounted door stops still fitted tight
- Operation of emergency release pin
- Floor guide fixings in concrete still fitted tight
- Check operation of heating cables on low temp doors (there will be ice build up if cable has failed)
- Check rubber seal for condition and fit against wall when door is closed

GOOD PRACTICE

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Please refer to New Zealand's Steel's Environmental Category and Product Maintenance Recommendations for maintenance requirements for specific NZ Steel coating.

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- 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%.
- The use of soft nylon bristle brooms coupled with water pressures of less than 400psi (2760kPa) is recommended.
- Regular inspection of slip joints and the general detailing of the coolroom will highlight problems before they become major concerns.
- Monitoring of sealant performance at the base of the panel is critical to prevent water ingress.
- Once the moisture has entered the panel, it will expand when frozen, causing the panel to bulge. This causes the seals to be broken and moisture-laden air to enter the panel, 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 slip joint
 - b) Gap that has developed between the bottom channel and the panel
 - c) Panel has been punctured by, for example, forklift tines
- Consideration should be given to means of preventing damage to coolroom walling incurred whilst handling stock stored within and around the coolroom.

CONDENSERS

The runoff from condensers should not be allowed to discharge via copper pipes over COLORSTEEL® pre-painted steel products.

All run off should be diverted away from the COLORSTEEL® pre-painted steel surface.



BRANCHES

AUCKLAND

139 Roscommon Road, Wiri, Auckland
T: 09 277 8844
sales@metpanels.co.nz

HAMILTON

9 Earthmover Cres, Burbush, Hamilton
07 849 3807
sales.hamilton@metpanels.co.nz

DISCLAIMER

As part of Metalcraft Insulated Panels 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. This publication is issued as a general guide only and should not be treated as a substitute for technical advice. Contact with your nearest Metalcraft branch is recommended to confirm current specifications and availability.

For more information on Metalcraft Insulated Panels visit:
www.metalcraftgroup.co.nz.
Metalcraft Insulated Panels is part of United Industries Ltd.
For more information on United Industries visit:
www.unitedindustries.co.nz.

Insulated Panel Council Australasia Ltd (IPCA Ltd) is a not for profit and third party certification industry body for Manufacturers, Installers and Distributors of Insulated Sandwich Panel products throughout Australasia.

For more information on IPCA visit:
www.insulatedpanelcouncil.org

