

ENVIRONMENTAL CATEGORIES AND PRODUCT RECOMMENDATIONS

INTRODUCTION

The Pacific Islands have a wide range of environmental conditions, from the harsh open surf beaches, to the relative shelter of the inland valleys. Therefore, New Zealand Steel Limited offers a range of premium painted steel products which are suitable for most locations.

MODERATE INLAND – ISO CATEGORY C

Characterised by:

- No obvious marine or industrial influences.
- Typically more than 1000 metres from the exposed coasts or more than 500 metres from industrial emissions.

MODERATE COASTAL – ISO CATEGORY C

Characterised by:

- Little or no salt deposits.
- The occasional smell of salt in the air.
- Typically 500-1000 metres from breaking surf such as is found on exposed coasts, OR
- In the immediate vicinity of calm salt water such as estuaries.

SEVERE – ISO CATEGORY D

Characterised by:

- Light salt deposits.
- A frequent smell of salt in the air.
- Typically 200-500 metres from breaking surf such as is found on exposed coasts.
- In the immediate vicinity of large expanses of calm salt water such as harbour foreshores.

This environment may be extended inland by prevailing winds and local conditions.



500m+

200m

50m

Colorbond[®]

COLORBOND[®] ULTRA[™]

COLORBOND[®] ULTRA[™]

COLORBOND[®] ULTRA[™]

COLORBOND[®] XRW[™]

COLORBOND[®] XRW[™]

COLORCLAD[™]

COLORCLAD[™]

COLORCLAD[™]

COLORSTEEL[®]

COLORSTEEL[®] ENDURA[™]

COLORSTEEL[®] ENDURA[™]

Zincalume[®]

ZINCALUME[®]

ISO CATEGORY C

ISO CATEGORY D

ISO CATEGORY E

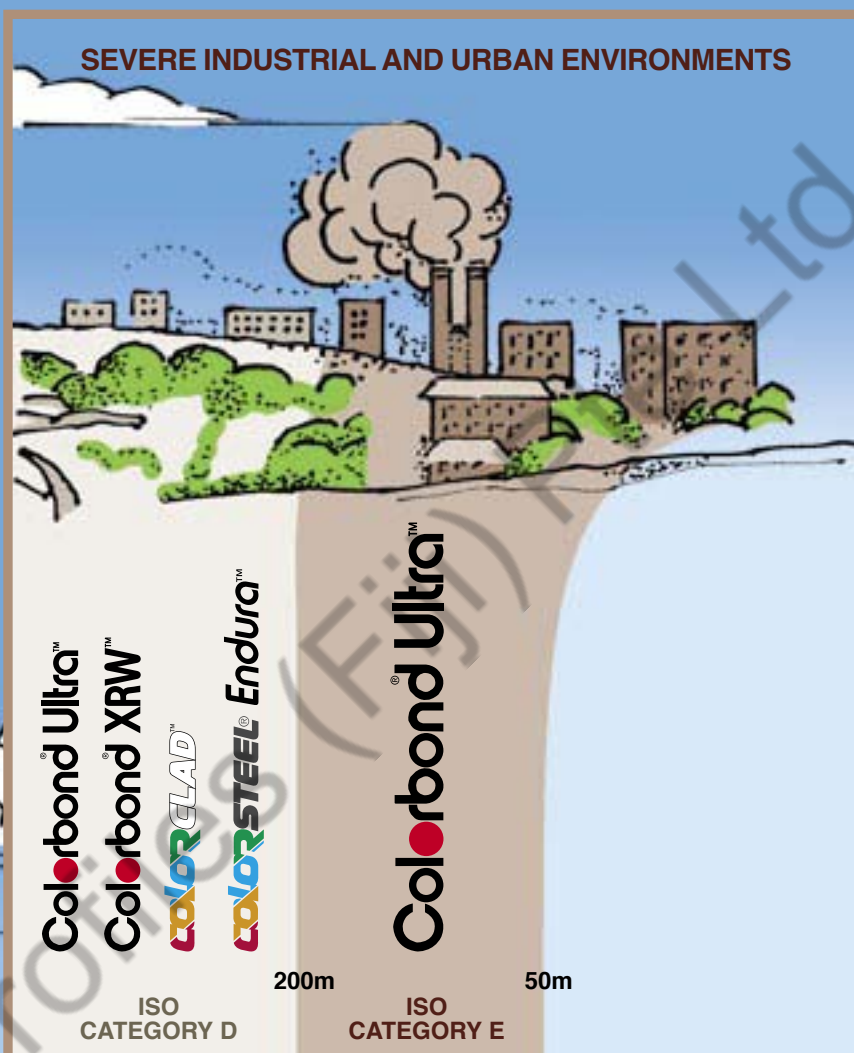
VERY SEVERE – ISO CATEGORY E

Characterised by:

- Heavy salt deposits.
- The almost constant smell of salt spray in the air.
- Close to breaking surf (typically 50-200 metres) such as is found on exposed coasts.

This environment may be extended inland by prevailing winds and local conditions.

SEVERE INDUSTRIAL AND URBAN ENVIRONMENTS



IMPORTANT

- As product use is dictated by local conditions, seek advice from your roofing supplier for the best New Zealand Steel Limited product to suit your specific environment.
- Gutters should be installed according to manufacturer's instructions.
- Unwashed and high risk areas – manual washing every 3 months.

RECOMMENDED ROOFING AND CLADDING WARRANTY GUIDE

COLORBOND® ULTRA™

COLORBOND® XRW™

Also COLORSTEEL® ENDURA™

COLORCLAD™

VERY SEVERE – ISO CATEGORY E

50m from high water and characterised by:

- Heavy salt deposits.
- Almost constant smell of salt spray in the air.
- Typically 50m from breaking surf such as is found on exposed coasts.

This environment may be extended inland by prevailing winds and local conditions.

10 years: covering the paint surface against flaking and peeling.

12 years: against perforation as a result of corrosion.

Not recommended.

Not recommended.

SEVERE – ISO CATEGORY D

200m from high water and characterised by:

- Light salt deposits.
- A frequent smell of salt in the air.
- Typically 200m from breaking surf such as is found on exposed coasts.
- In the immediate vicinity of large expanses of calm salt water such as harbour foreshores.

This environment may be extended inland by prevailing winds and local conditions.

15 years: covering the paint surface against flaking and peeling.

15 years: against perforation as a result of corrosion.

10 years: covering the paint surface against flaking and peeling.

10 years: against perforation as a result of corrosion.

12 years: covering the paint surface against flaking and peeling.

12 years: against perforation as a result of corrosion.

MODERATE COASTAL – ISO CATEGORY C

500m from high water and characterised by:

- Little or no salt deposits.
- An occasional smell of salt in the air.
- Typically 500-1000m from breaking surf such as is found on exposed coasts, OR
- In the immediate vicinity of calm salt water such as estuaries.

This environment may be extended inland by prevailing winds and local conditions.

15 years: covering the paint surface against flaking and peeling.

20 years: against perforation as a result of corrosion.

10 years: covering the paint surface against flaking and peeling.

10 years: against perforation as a result of corrosion.

12 years: covering the paint surface against flaking and peeling.

12 years: against perforation as a result of corrosion.

Commercial warranties are issued through the Rollformer by New Zealand Steel Limited and the terms are specific to each contract.

In order to ensure the appropriate roofing products are specified for the intended service life in any given environment, New Zealand Steel recommends that approved Roll Formers are contacted and consulted as early as possible in the design stage to ensure correct material selection and backing by an appropriate product warranty.

Applications for Roofing Warranties will be assessed by the Roll Former and made directly to New Zealand Steel, based on the Roofing Warranty Guide outlined above after declaration and assessment of local environmental conditions.

Factors such as roof design, roof pitch, profile, coating type, internal and external environments and special conditions

(such as good design to ensure all eaves are covered and application of edge protection lacquer in very severe coastal areas) are all assessed at the time of the Warranty application. **Maintenance requirements as specified in this publication and on the Warranty document are an integral part of the Warranty conditions.**

A roofing Warranty is issued on the satisfactory completion of the building project or contract. Installation must be carried out in accordance with the Pacific Specification and Installation Guide and according to good trade practices.

A site inspection by the Rollformer on behalf of New Zealand Steel may be carried out prior to the issuing of any Warranty. The maintenance programme specified in the roofing Warranty must be carried out to validate the Warranty.

RECOMMENDED MAINTENANCE GUIDE

**COLORBOND®
ULTRA™**

**COLORBOND®
XRW™ and
COLORCLAD™**

ZINCALUME®

Also COLORSTEEL® ENDURA™

VERY SEVERE – ISO CATEGORY E

50m from high water and characterised by:

- Heavy salt deposits.
- Almost constant smell of salt spray in the air.
- Typically 50m from breaking surf such as is found on exposed coasts.

This environment may be extended inland by prevailing winds and local conditions.

Roofing

- Rain washing.

Not recommended.

Not recommended.

Wall Cladding

- Rain washing plus manual washing every 3 months.

Gutters Downpipes Fascia

- Manual washing every month.

SEVERE – ISO CATEGORY D

200m from high water and characterised by:

- Light salt deposits.
- A frequent smell of salt in the air.
- Typically 200m from breaking surf such as is found on exposed coasts.
- In the immediate vicinity of large expanses of calm salt water such as harbour foreshores.

This environment may be extended inland by prevailing winds and local conditions.

Roofing

- Rain washing.

- Rain washing.

Not recommended.

Wall Cladding

- Rain washing plus manual washing every 6 months.

- Rain washing plus manual washing every 6 months.

Gutters Downpipes Fascia

- Manual washing every 3 months.

- Manual washing every 3 months.

MODERATE COASTAL – ISO CATEGORY C

500m from high water and characterised by:

- Little or no salt deposits.
- An occasional smell of salt in the air.
- Typically 500-1000m from breaking surf such as is found on exposed coasts, OR
- In the immediate vicinity of calm salt water such as estuaries.

This environment may be extended inland by prevailing winds and local conditions.

Roofing

- Rain washing.

- Rain washing.

- Rain washing.

Wall Cladding

- Rain washing plus manual washing every year.

- Rain washing plus manual washing every year.

- Rain washing plus manual washing every 6 months.

Gutters Downpipes Fascia

- Manual washing every 6 months.

- Manual washing every 6 months.

- Manual washing every 3 months.

