

Special environments

In New Zealand there are areas where local conditions create an increased likelihood of corrosion. Special consideration should be given to material selection in these areas. If you think your project may experience one of the below environments, please contact New Zealand Steel for advice about the best COLORSTEEL® product to use.

GEOTHERMAL AREAS

Hydrogen sulphide associated with geothermal activity creates a corrosive environment. Variations in natural activity or draw-off from steam bores plus the effects of weather conditions make the high risk areas hard to define.

This area combines the most severe features of both industrial and coastal environments.

INTERNAL ENVIRONMENTS

Some commercial or agricultural applications may create internal environments in which the build-up of pollutants or fumes is a potential source of corrosion. Similarly a corrosive environment can develop within sheds for intensive animal farming.

WEST COAST, SOUTH ISLAND

In this area, smoke from coal burning fires may cause high concentrations of sulphur dioxide in the air. The combination of this and the high rainfall for the region creates an aggressive situation which must be considered when choosing the appropriate COLORSTEEL® solution. The effects of a severe coastal environment aggravate the situation.

INDUSTRIAL ENVIRONMENTS

Environments close to corrosive industrial emissions and subject to heavy fallout from them require extra consideration.

Considerations

IMPORTANT

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

NON-RESIDENTIAL WARRANTY

For applications like schools, warehouses and other commercial buildings please contact New Zealand Steel. The maximum warranty offered on commercial buildings is 15 years.

FURTHER ASSISTANCE

Further advice on the selection of the appropriate product to suit your particular location is available from New Zealand Steel or your local COLORSTEEL® supplier.



Environmental Categories, Warranty & Product Maintenance Recommendations

For more information about warranties and maintenance, please call **0800 697 833** or visit **colorsteel.co.nz**

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New Zealand has a wide range of environmental conditions.

From the harsh west coast beaches, to the relative shelter of the Waikato farming region, New Zealand Steel offers a range of coated steel products that are suitable for most locations.

This chart is intended as a guide only. Design, position and other factors can influence which product is recommended. Please contact New Zealand Steel for further advice on the best COLORSTEEL® product to use.

■ Eligible for a residential warranty.

■ Not eligible for a residential warranty.

¹ Against perforation as a result of corrosion.

² Covering the paint surface against flaking, peeling and excessive fade.

VERY SEVERE



Starts 25m from the high water mark on the east coast and 50m from the high water mark on the west coast, characterised by:

- Heavy salt deposits.
- The almost constant smell of salt spray in the air.
- Close to breaking surf such as is found on exposed coasts (typically starts 25-50 metres).

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

SEVERE



Characterised by:

- Light salt deposits.
- A frequent smell of salt in the air.
- Typically starts 100 – 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

MODERATE



Characterised by:

- Little or no salt deposits.
- The occasional smell of salt in the air.
- Typically starts 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.

| | | WALL CLADDING | ROOFING | GUTTER DOWNPIPES | FASCIA | WALL CLADDING | ROOFING | GUTTER DOWNPIPES | FASCIA | WALL CLADDING | ROOFING | GUTTER DOWNPIPES | FASCIA |
|------------------------|-------------------------------|-------------------------------------------------|--------------|----------------------------|----------------------------|-------------------------------------------------|--------------|-------------------------------------|-------------------------------------|-------------------------------------------------|--------------|-------------------------------------|-------------------------------------|
| Endura® | RESIDENTIAL WARRANTIES | PERFORATION ¹ | | | | | 15 YEARS | 10 YEARS | 15 YEARS | 15 YEARS | 30 YEARS | 10 YEARS | 15 YEARS |
| | | PAINT ² | | | | | 15 YEARS | 5 YEARS | 5 YEARS | 15 YEARS | 18 YEARS | 10 YEARS | 10 YEARS |
| | MAINTENANCE | Not recommended in this environment | | | | Not recommended in this environment | Rain washing | Manual washing every 3 months | Manual washing every 3 months | Rain washing plus manual washing every year | Rain washing | Manual washing every 6 months | Manual washing every 6 months |
| Maxx | RESIDENTIAL WARRANTIES | PERFORATION ¹ | 15 YEARS | 15 YEARS | 10 YEARS | 15 YEARS | 20 YEARS | 10 YEARS | 15 YEARS | 15 YEARS | 30 YEARS | 10 YEARS | 15 YEARS |
| | | PAINT ² | 15 YEARS | 15 YEARS | 10 YEARS | 10 YEARS | 15 YEARS | 15 YEARS | 10 YEARS | 10 YEARS | 18 YEARS | 10 YEARS | 10 YEARS |
| | MAINTENANCE | Rain washing plus manual washing every 3 months | Rain washing | Manual washing every month | Manual washing every month | Rain washing plus manual washing every 6 months | Rain washing | Manual washing every 3 months | Manual washing every 3 months | Rain washing plus manual washing every year | Rain washing | Manual washing every 6 months | Manual washing every 6 months |
| Endura® Dridex® | RESIDENTIAL WARRANTIES | PERFORATION ¹ | | | | | | | | 15 YEARS | 30 YEARS | | |
| | | PAINT ² | | | | | | | | 15 YEARS | 18 YEARS | | |
| | MAINTENANCE | Not recommended in this environment | | | | Not recommended in this environment | | | | Rain washing plus manual washing every 6 months | Rain washing | Not recommended in this environment | Not recommended in this environment |
| Maxx Dridex® | RESIDENTIAL WARRANTIES | PERFORATION ¹ | | | | 15 YEARS | 20 YEARS | | | 15 YEARS | 30 YEARS | | |
| | | PAINT ² | | | | 15 YEARS | 15 YEARS | | | 15 YEARS | 18 YEARS | | |
| | MAINTENANCE | Not recommended in this environment | | | | Rain washing plus manual washing every 6 months | Rain washing | Not recommended in this environment | Not recommended in this environment | Rain washing plus manual washing every 6 months | Rain washing | Not recommended in this environment | Not recommended in this environment |
| Zincalume® | RESIDENTIAL WARRANTIES | PERFORATION ¹ | | | | | | | | 15 YEARS | 15 YEARS | 10 YEARS | 10 YEARS |
| | MAINTENANCE | Not recommended in this environment | | | | Not recommended in this environment | | | | Rain washing plus manual washing every 6 months | Rain washing | Manual washing every 3 months | Manual washing every 3 months |