

# 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.

### 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.

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.

### 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.

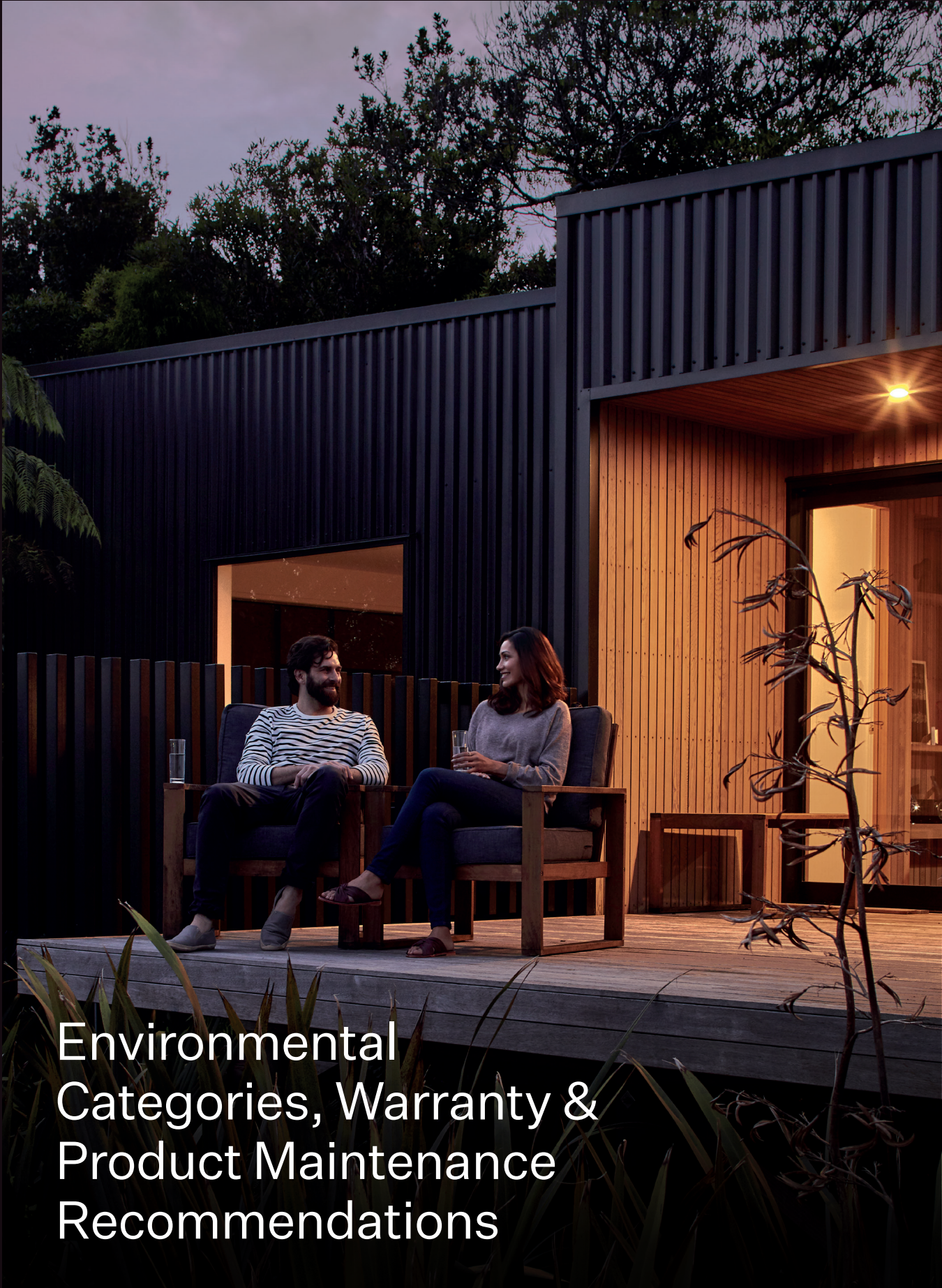


For more information about warranties and maintenance, please call **0800 697 833** or visit **colorsteel.co.nz**

NOTE: Buyers and users of New Zealand Steel Limited products and services must make their own assessment of the products for their own conditions. All queries regarding product specification, purpose or application should be directed to New Zealand Steel Limited, phone 0800 697 833. New Zealand Steel Limited reserves the right to modify products, techniques, equipment and statements to reflect improvements in the manufacture and application of its products. The information contained in this brochure is supplied without prejudice to New Zealand Steel Limited's standard terms and conditions of sale. In the event of conflict between this information and the standard terms and conditions, the standard terms and conditions prevail. This Environmental Categories, Warranty & Product Maintenance Recommendations guide supercedes all previous editions. COLORSTEEL®, COLORSTEEL® DRIDEX®, COLORSTEEL® MAXX® and COLORSTEEL® ENDURA® are registered trademarks of New Zealand Steel Limited. ZINCALUME® is a registered trademark of BlueScope Steel Limited.

Images are reproduced with the consent of the owners thereof.

Copyright© New Zealand Steel Limited, October 2018. 957639D.



Environmental  
Categories, Warranty &  
Product Maintenance  
Recommendations



## 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.

<sup>1</sup> Against perforation as a result of corrosion.

<sup>2</sup> Covering the paint surface against flaking, peeling and excessive fade.

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	PERFORATION¹						15 YEARS	10 YEARS	15 YEARS	15 YEARS	30 YEARS	10 YEARS	15 YEARS
		PAINT²						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	PERFORATION¹	15 YEARS	15 YEARS	10 YEARS	15 YEARS	15 YEARS	20 YEARS	10 YEARS	15 YEARS	15 YEARS	30 YEARS	10 YEARS	15 YEARS
		PAINT²	15 YEARS	15 YEARS	10 YEARS	10 YEARS	15 YEARS	15 YEARS	10 YEARS	10 YEARS	15 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	
DRIDEX®	RESIDENTIAL WARRANTIES	PERFORATION¹										30 YEARS		
		PAINT²										18 YEARS		
	MAINTENANCE	Not recommended in this environment				Not recommended in this environment				Not recommended in this environment	Rain washing	Not recommended in this environment	Not recommended in this environment	
DRIDEX+®	RESIDENTIAL WARRANTIES	PERFORATION¹						20 YEARS				30 YEARS		
		PAINT²						15 YEARS				18 YEARS		
	MAINTENANCE	Not recommended in this environment				Not recommended in this environment	Rain washing	Not recommended in this environment	Not recommended in this environment	Not recommended in this environment	Rain washing	Not recommended in this environment	Not recommended in this environment	
ZINCALUME®	RESIDENTIAL WARRANTIES	PERFORATION¹									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	