

How to choose the right roof

Roofing, Re-roofing
& Cladding Guide

colorcote.co.nz


ColorCote[®]
The right roof always lasts longer

Adding Visual Appeal & Value

Your roof and cladding are the largest and most obvious visual features of your home. Fortunately, ColorCote® has the cutting-edge technology, colour range and new profiles to give you more choice than ever.



Choosing the right roof starts with the right questions

Spending time now deciding on which product is right for the house design, environment, lifespan and maintenance requirements will reward you with decades of worry-free enjoyment.

Spending slightly more now and getting it right may save thousands of dollars and potentially extra work over the life of the roof.





Black



Substrate:

AlumiGard™

Colour **Black**

Location **Gisborne**

Environment

Very severe marine

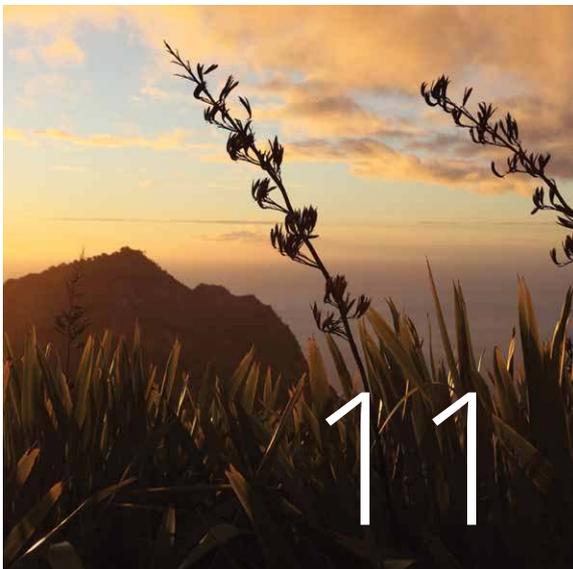
View online at

colorcote.co.nz/gallery





Rest easy under a
ColorCote® roof



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Leading
New Zealand
innovation in
pre-painted steel
and aluminium



Manufactured
and marketed in
New Zealand for
more than
40 years



Grey Flannel

Substrate:
AlumiGard™

Colour **Grey Flannel**
Location **Waiheke Island**

Environment
Severe marine

View online at
colorcote.co.nz/gallery



Product overview

Protecting New Zealand homes for over 40 years

ColorCote pre-painted steel and aluminium roofing and cladding products have been proudly manufactured in New Zealand for over 40 years.

To ensure all our products are more than equal to the worst the harsh New Zealand climate can throw at them, we run rigorous tests, with exposure sites at Muriwai Beach on the untamed west coast of the North Island and in the Auckland industrial suburb of Penrose.

Three tiers for all

Only ColorCote can confidently offer a three-tier range of pre-painted metal roofing and cladding products – all using the latest coating technology – to suit any environment. This means we can recommend the roofing solution that will give you optimal durability, and back it with a 15-30 year warranty, depending on the product.

Building beside an airport, or in a geothermal area?

Some environments have the added complexity of chemicals present, which can shorten the life of your roof or cladding. Although this is more commonly an issue for commercial buildings, occasionally a residential roof or cladding may require some additional protection. ColorCote is able to provide a technologically advanced Polyvinylidene Fluoride (PVDF) paint option for these very demanding environments. This premium paint system may be applied to any of our three substrates, so you can protect against rust corrosion from salt as well as potential chemical corrosion. We've added an 'X' to our product brand name to clarify the additional protection of these products.

AlumiGard™

For the harshest conditions

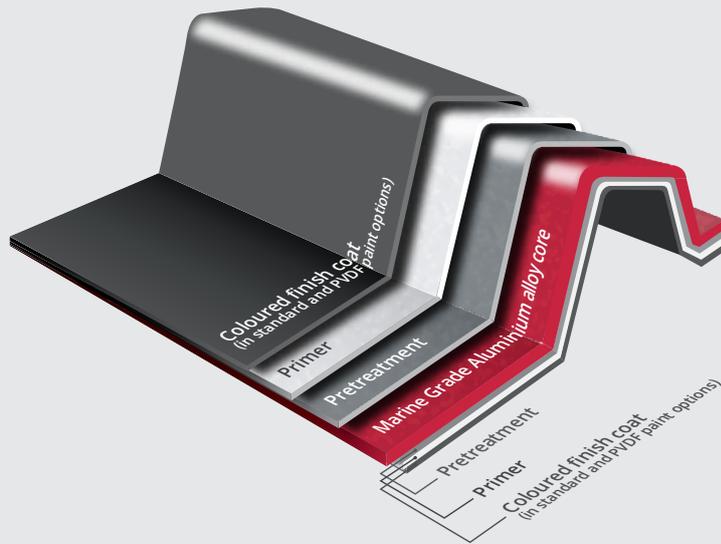
MagnaFlow™

For that extra protection

ZinaCore™

Durability and value

Aluminium doesn't rust. Period. We use a marine grade aluminium alloy substrate, painted with a polyester primer, and add a water-borne acrylic or polyester baked-on top coat. AlumiGard is designed for use in very severe marine environments, right up to the waterline, or for acidic exposure in geothermal areas.

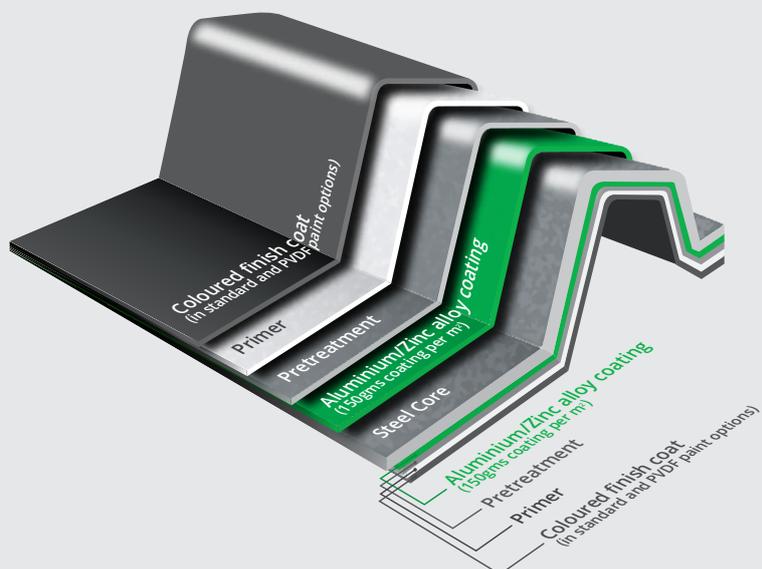


A steel roof is most susceptible to corrosion along cut edges, however the magnesium in the coating of MagnaFlow helps it to 'self heal' by helping zinc to flow over the edge and create a seal against further corrosion.

With superior corrosion resistance, MagnaFlow is the ideal choice for demanding environments such as houses close to the coast. This substrate has a water-borne or polyester top coat baked on a polyester primer, ensuring excellent colour retention and gloss for many years to come.



Suitable for moderate climatic environments, ZinaCore has a hot-dipped aluminium/zinc alloy coated steel substrate. It has a water-borne or polyester top coat baked on a polyester primer, giving an extremely durable paint system that resists UV damage and provides excellent gloss and colour retention.



Choose the right roof for your environment

It is very important to choose the correct ColorCote pre-painted metal roofing or cladding system for the atmospheric environment.

For example, installing a system designed for a moderate environment in a very severe marine environment will mean a shorter product lifespan, lots of maintenance and **no protection under our warranty programme.**

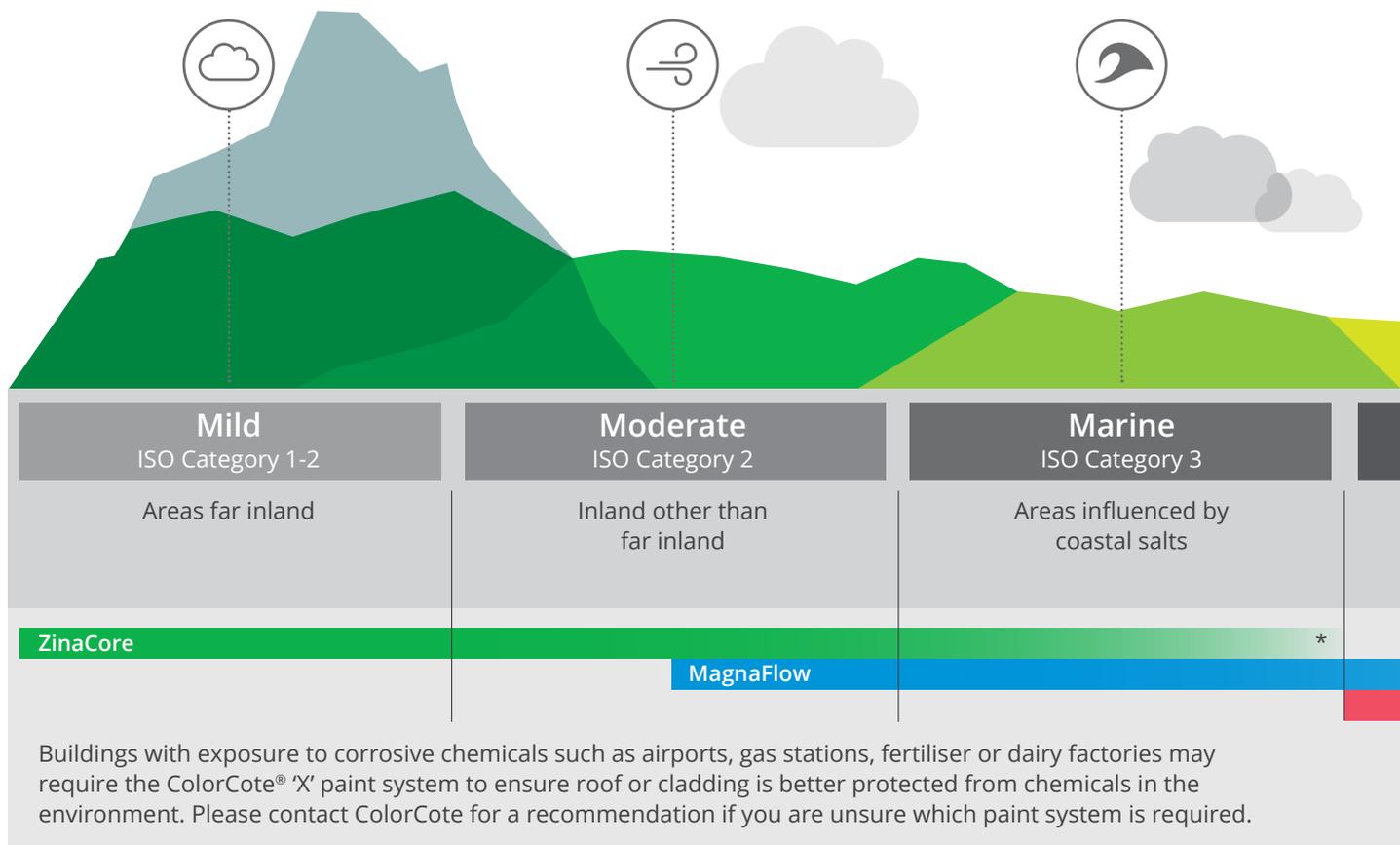
The environmental usage tables shown here, based on the International Standards rating (ISO) for atmospheric corrosion, are only approximate guides to local climatic and geographical conditions.

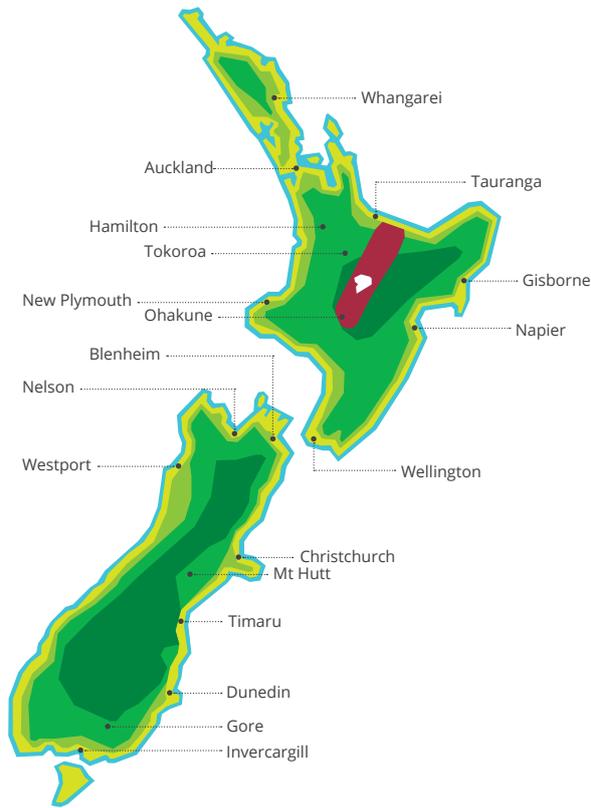
Salt-laden sea air does not stop where the chart says the boundaries are. Prevailing winds and regional topographical variations can amplify the true range of severe marine environment to many kilometres inland from the sea.

A simple rule of thumb is that if you can see the sea from your property an aluminium substrate (AlumiGard) should be considered.

Atmospheric environments

Usage guide

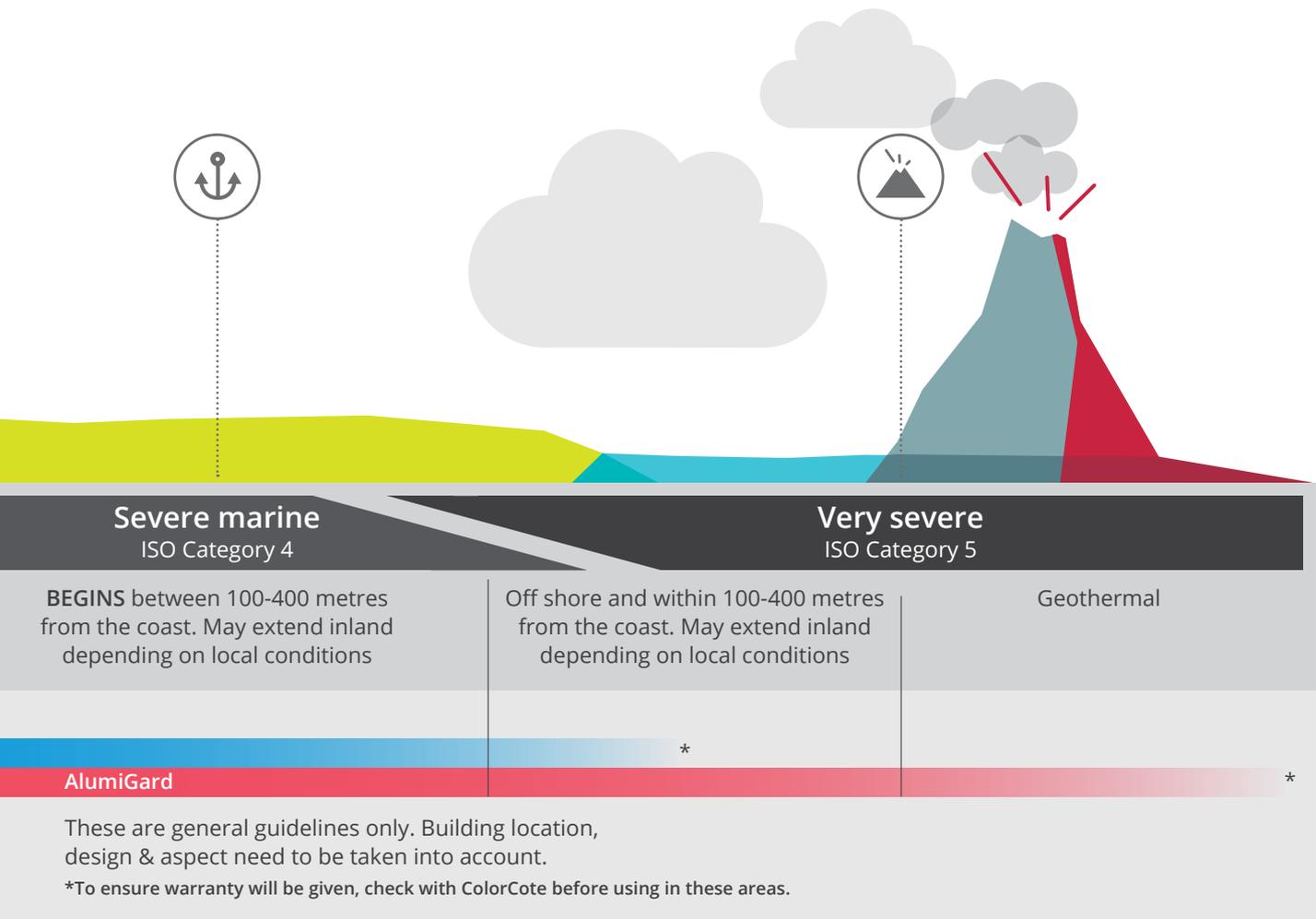




Environmental usage table

- KEY**
- Very severe marine
 - Severe marine
 - Marine
 - Moderate
 - Mild
 - Geothermal

Representative of NZ environmental classification borders only. Complete the warranty enquiry form at colorcote.co.nz/warranty or use the warranty app to determine the environmental classification, recommended product and warranty information for your specific roof or cladding project.



Understanding the fundamentals of design

When planning a new home or renovation, carefully consider roofing and cladding. Good design, common sense and forethought can save a lot of time, effort, stress and expense.

Biggest range and exceptional design flexibility

ColorCote pre-painted metal roofing and cladding offers the biggest choice of colours and substrates. These can be roll-formed or pressed into a range of profiles that give amazing design flexibility, will look great – and are warranted to last.

They are easy to install and can be adapted to almost any design or construction concept.

ColorCote roofing has the strength to span wide spaces with simple and lightweight support systems and can be bent or curved to suit an almost unlimited range of innovative designs and roof pitches.

Design notes

The house design will affect the life of your pre-painted roofing and cladding. Avoid overhangs and designs that create unwashed areas. They won't be naturally washed down by rainwater, so caked dirt, salts and other corrosive elements will accumulate.

In severe marine environments care needs to be taken with cut edges and penetrations – including screw holes – to prevent the spread of corrosion.





Sandstone Grey



Substrate:

ZinaCore™

Colour **Sandstone Grey**

Location **Central Otago**

Environment

Moderate

View online at

colorcote.co.nz/gallery



Over 40 colours to choose from

Whatever style your home is, ColorCote has colours to suit, from heritage to the latest trends – go wild, mild, bright, bold, earthy, metallic or even black and white.



Any of our colours...
baked onto any of our
steel or aluminium
substrates

Colours shown throughout this brochure are reproduced within the practical limits of the of the printing process. Painted samples can be ordered at colorcote.co.nz.

Click 'n' Pick your new roof colour

With these simple steps, our new 'Roof Viewer' app will help you choose the right colour for your roof.

- 1 Download our Roof Viewer app.
- 2 Take a photo of your house exterior.
- 3 Tap 4 corners to indicate the roof 'section'.
- 4 Use slider to indicate roof profile.
- 5 Enjoy exploring our ColorCote palette.
- 6 Email your favourite roof colours to yourself or others.



Download our app.

The Roof Viewer app is available on both the App Store and Google Play.



Made for New Zealand's landscape

ColorCote's range of low gloss colours blend with the natural environment where councils have requirements around reflectivity.



Reflectivity

Some New Zealand local authorities and councils want new buildings to blend in with the natural environment and are enforcing reflectivity levels. These are based on standard ASTM E903-12 which measures the average values for reflected solar radiation from building products. The lower the value the less reflected light/glare.

ColorCote has a range of low gloss colour options to meet council requirements around reflectivity levels.

Visit colorcote.co.nz or your council website for more details.





Black



Substrate:

ZinaCore™

Colour **Black**

Location **Waikato**

Environment
Mild / Moderate

View online at
colorcote.co.nz/gallery



STEP BY STEP

Guide for ColorCote roofing and cladding for new builds

1

Neighbourhood

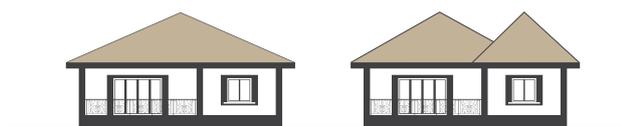
Look around the neighbourhood. Compare the different styles of roofing or cladding and visualise how they might look on the type of house you have in mind.



2

Design

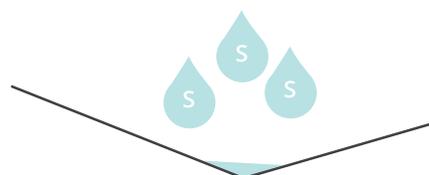
Does the design of the roofing or cladding enhance the overall design of the house?
Will the design be easy to build and maintain?
Ideally you want 'form and function'.



3

Problem areas

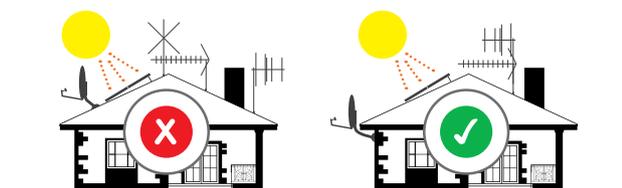
If it complements the design aesthetic, eliminate sheltered areas or features that allow the build-up of salts and other contaminants that could affect the long term performance.



4

Fixtures

Keep penetrations and aerials or fixtures to a minimum.



5

Colour

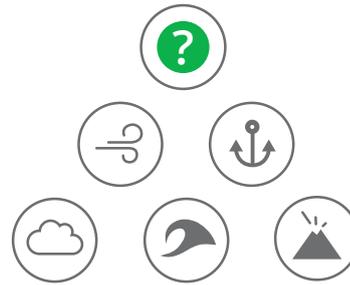
How does the roof colour work with the overall house colour scheme? Consider 'stamping your personality' vs re-sale. Will the colour scheme jar with the environment? Check for any local authority restrictions on colour use.



6

The right roof

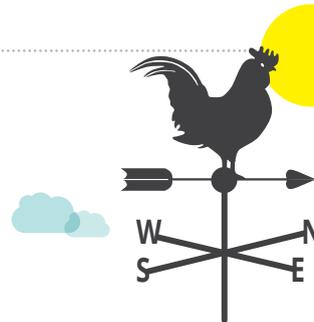
Choose the right ColorCote pre-painted metal system to suit the environment. What are the climatic conditions? How far from the ocean or harbour? Prevailing winds? Harsh winters or summers? Any seismic or geothermal activity nearby? Industrial sites or airports? Visit colorcote.co.nz/warranty for our recommendation.



7

Which is North?

Which way is north? How much sun will the site get and which way should you orientate your living and outdoor activities? Do you need to consider the roof's aspect to avoid wind/weather issues?



8

Roof profiles

Are there any big spans, curves or bends? What roofing or cladding profile is suitable for this design? Do you need to check with your architect/designer or the roof manufacturer?



9

Talk

Talk to your architect or designer about your ideas or concerns before building commences. Ask any of the questions above or any others your research has raised.



10

Licensed Building Practitioner

Select a suitable builder and/or roofing and cladding fixer. We only recommend a Licensed Building Practitioner (LBP) – to ensure a quality build protected by a labour warranty.

NB Read the latest Building Act – it shows you explicitly, up to the minute, what each contractor is responsible for and how the Act protects you: www.legislation.govt.nz/act/public/2004/0072/latest/DLM306036.html

11

Warranty

Check with your roof manufacturer or ColorCote that your project meets pre-approved ColorCote warranty conditions, or request your architect or designer to do so.



STEP BY STEP

Guide for ColorCote re-roofing

1

Find a roofer

Visit colorcote.co.nz for a list of distributors, who will be happy to recommend a reputable roofing company in your area.



2

Ask questions

Work with your roofer to get the roof you want. If your old roof failed prematurely, do you know how to stop it happening again? Consult an architect or designer if necessary or contact us at colorcote.co.nz



3

Design

Does the design of the roofing or cladding enhance the overall design of the house? Will the design be easy to build and maintain? Do you need building consent?



4

Problem areas

Where possible, design out any sheltered areas or other features that allow the build-up of salts and other contaminants. Keep penetrations like satellite dishes and aerials to a minimum. Is there anything else that can affect the long term performance of the roofing and cladding?



5

Colour

How does the roof colour work with the overall house colour scheme? Consider 'stamping your personality' vs re-sale. Will the colour scheme jar with the environment? Check for any local authority restrictions on colour use.

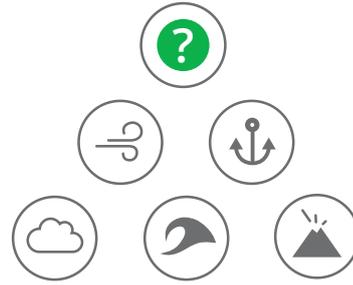


6

The right roof

Choose the right ColorCote pre-painted metal system to suit the environment. What are the climatic conditions? How far from the ocean or harbour? Prevailing winds? Harsh winters or summers? Any seismic or geothermal activity nearby? Industrial sites or airports?

Visit colorcote.co.nz/warranty for our recommendation.



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Roof profiles

Are there any big spans, curves or bends? What roofing or cladding profile is suitable for this design? Do you need to check with your architect/designer or the roof manufacturer?



8

Warranty

Check with your roof manufacturer or ColorCote that your project meets pre-approved ColorCote warranty conditions.



9

Recycle

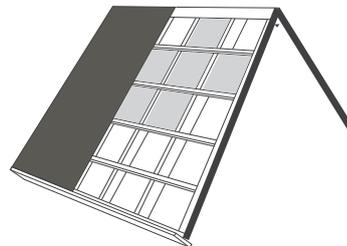
Once the paperwork is approved, your new roof is ordered and delivered to site. If the old roof being removed is metal it can be recycled (don't let it be carted off to landfill).



10

Insulation

While the roof is off you can get new insulation put in. It is quicker and easier for the installer, so it should be cheaper too. Make repairs to the timber roof structure and have new purlins installed if necessary.



11

Your new roof

Ensure your new roof is installed to good trade practice standards.



We make sure the right product is used for its environment

Warranties

Not all are created equal

Many roofing companies offer warranties - but first and foremost it is best to have the right roof for your conditions. Also some warranties are generic or have onerous care and maintenance obligations which make it difficult to call on the warranty when you need to.

Check with us

Our warranties are specific to a particular building, where it is sited, and the type of roofing or cladding product used. Requesting ColorCote's recommendation gives you the reassurance of suitability and durability along with the protection of a written warranty backed by Fletcher Building, one of NZ's largest companies.

For specific advice on your proposed roofing or cladding design:



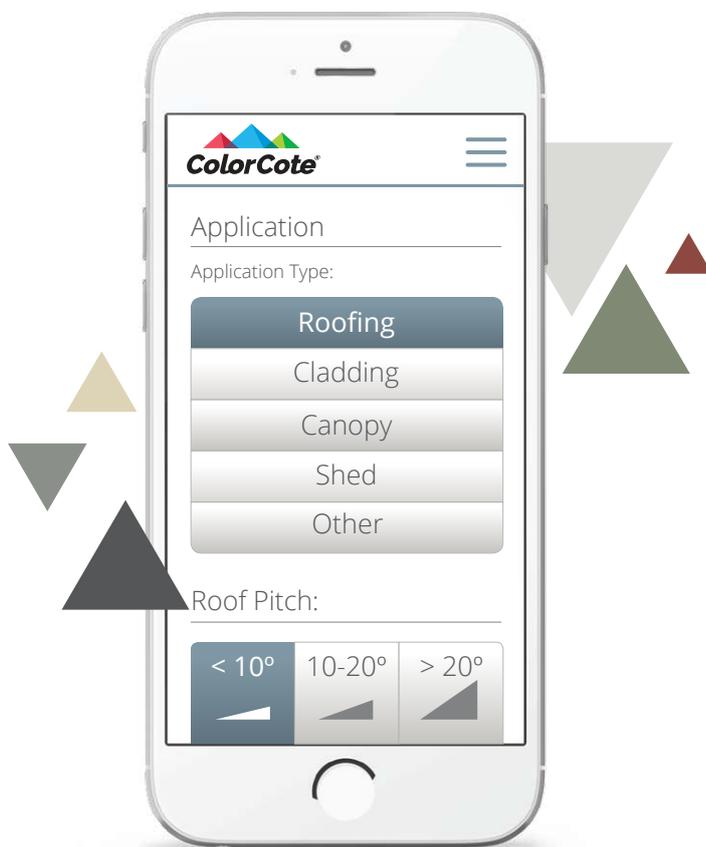
phone 0800 279 979



or visit colorcote.co.nz/warranty and complete the enquiry form.

We'll let you know which is the best substrate and paint solution for the design you are planning and the environment you are building in.

This means you'll get the correct ColorCote product and a pre-approved warranty and period you will be covered for.



Maintenance

Basic maintenance will prolong roof life

All roofing and cladding products require regular maintenance to keep them looking good, to prolong their life and to meet the terms of any product warranty.

Choosing the right product for the environment is the best way to reduce maintenance time.



Grey Friars

Seismic

Rest easy under a ColorCote roof

We are all only too aware that New Zealand is vulnerable to seismic disruption. A ColorCote roof is strong, secure and also much lighter than alternatives.

A ColorCote pre-painted steel roof on the average 150 square metre home weighs less than a tonne. By contrast, a concrete tile roof on the same house could weigh more than eight tonnes and would require additional structural, engineering and labour costs.



Storm Blue

Sustainability and recycling

At ColorCote, we have an ongoing commitment to sustainability and continuous product and process improvement.

We developed processes to minimise water use with on-site cooling, recirculation and recycling processes.

What comes around goes around

Fumes generated during the paint curing process are reused to fuel the paint curing ovens, reducing overall energy costs and increasing efficiency. Excess heat from the drying process is also used to heat the factory in winter.



Good enough to drink from

All ColorCote products are coated with paint systems which are lead and cadmium-free and suitable for rainwater collection systems.



100% recyclable

ColorCote pre-painted steel and aluminium products are fully recyclable.

Scraps or old roofing material can be recycled in New Zealand.

ColorCote recycles or reuses its metal scrap.





Black

Innovation for the long run

At ColorCote we're very proud of our ongoing commitment to innovation and continuous improvement. We not only set New Zealand's quality standard in product development but also manufacturing processes too.

From developing long run steel roofing, water-based paint systems you can drink from, to the revolutionary MagnaFlow alloy that flows to seal cut edges – you can count on our product innovation. We also lead the way in thoughtful and sustainable processes that minimise onsite water use and emissions while recycling and reducing energy costs. And of course our products are 100% recyclable.

ColorCote's history of innovation in NZ

-  **First** to launch painted long run steel roofing
-  **First** to offer painted aluminium
-  **First** NZ company to offer PVDF paint on roofing and cladding products for chemical protection
-  **First** in market to replace solvent paints with more environmentally-friendly water-borne paints
-  **First** company to offer MagnaFlow – a steel substrate with a superior self-healing zinc/aluminium/magnesium alloy coating
-  **First** company to launch a Warranty Enquiry app, so you can find out what product your building needs

Where to look for more information, ideas or help

For a list of distributors who can recommend a great roofer, please go to colorcote.co.nz/distributors.

ColorCote recommends you always use a registered architect or reputable designer for your roofing and cladding designs.

The following websites and links may be useful:

New Zealand Institute of Architects (NZIA)
www.nzia.co.nz

Architectural designers New Zealand (ADNZ)
www.adnz.org.nz

All metal roofing and cladding should be installed according to the Metal Roofing Manufacturers' Code of Practice.

For more details see:

Metal Roofing Manufacturers Inc
www.metalroofing.org.nz

Roofing Association of NZ
www.roofingassn.org.nz

We always recommend you use a Licensed Building Practitioner (LBP) because of the extra protection under the law and the added assurance of quality.

To see how you are protected by New Zealand Law under the current Building Act visit:
www.legislation.govt.nz/act/public/2004/0072/latest/DLM306036.html



Leading
New Zealand
innovation in
pre-painted steel
and aluminium



Manufactured
and marketed in
New Zealand for
more than
40 years

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V2/12/2015


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The right roof always lasts longer