

Zincalume[®]

with Activate[™] Technology





Continuing a tradition of dependability

The Pacific Islands present some demanding environments - from high humidity, intense UV to salt-laden coastal winds. Next generation ZINCALUME® steel with Activate™ technology is specifically engineered to meet these challenges head-on. With superior corrosion resistance and long-term durability, it delivers confidence to specifiers and peace of mind to building owners across the region.

What is Activate™ Technology?

Activate™ is a patented protective metallic alloy coating developed by Bluescope Steel that enhances the performance of ZINCALUME® steel. The unique blend of aluminium, zinc, and magnesium in the AM125 coating offers advanced corrosion protection at cut edges, screw holes, and scratches, making it ideal for the tough conditions experienced throughout the Pacific.

Key Benefits

Superior Corrosion Resistance: Outstanding durability in marine and tropical environments, supported by a New Zealand Steel warranty of up to 20 years.

Long-Term Performance: Proven through decades of real-world exposure and accelerated lab testing.

Lightweight & Strong: Easy to transport, handle, and install in remote island locations.

Designed for a Range of Applications

Next generation ZINCALUME® steel is suitable for a wide range of building projects, including:

- Roofing and cladding for residential and commercial buildings
- Sheds and light industrial structures
- Community buildings and infrastructure

Specify with Confidence

With Activate™ technology and AM125 coating, next generation ZINCALUME® steel meets or exceeds industry performance standards. It is backed by years of research, field trials, and the support of New Zealand Steel's technical expertise.

For more information or technical support, contact your local supplier or visit nzsteel.co.nz/products/pacific-islands

Appearance

ZINCALUME® steel has a finely spangled silvery matt finish. After exposure the surface finish darkens over time as the surface protection against fingerprint marking weathers away. The surface darkening varies due to differences in aspect, degree of shading and the effect of rain on the ZINCALUME® surface. This change is a natural one and is visual only. The protective properties of the product are not affected.

Painting ZINCALUME® coated steel

ZINCALUME® steel is readily paintable using good quality primers and water-based acrylic topcoats. Paint manufacturers' instructions should be followed.

Dirt, grease and any loose material must be cleaned off so the surface is clean and dry prior to the first coat being applied.

However, it is important to note the ZINCALUME® steel warranty does not cover failure caused by post paint systems. Where painted roofing or cladding is desired New Zealand Steel recommends the use of COLORBOND® steel specified for the environmental category of the building project.

Flashings and accessories

Flashings and ridge capping should be manufactured from the same coating system as used for the main roof. Extended ridge caps, soft zinc, or practices such as cutting and notching are recommended.

Where penetration flashings are required, neoprene or silicone rubber, EPDM, aluminium or soft zinc all give excellent performance.

Where not to use

- Formwork in contact with wet concrete
- Embedded in concrete
- Animal shelters where ammonia levels are constantly high
- Fertiliser storage sheds and containers
- Culverts, or where the product is buried in the ground
- Water tanks
- Highly alkaline environments (e.g. cement manufacture)
- Coolroom products

Maintenance

All roofing and cladding products are subject to the cumulative effects of weather, dust and other deposits. Normal rain washing will remove most accumulated atmospheric contaminants from roofs. Roofing and wall cladding products may be manually washed by either water and a sponge, a soft nylon-bristled brush or by water blasting at pressures of no more than 2900 psi.

UNWASHED AREAS

Regular washing of steel products increases their durability by limiting attack from airborne salts, pollutants and other build up. Normal rain washing will remove most contaminants from roofs. Wall cladding requires manual washing to prevent build-up of contaminants that aren't removed by rain washing. Other areas that do not receive adequate rain washing (known as unwashed areas) require more extensive manual washing. These areas include soffits, undersides of gutters, fascias, and sheltered areas of garage doors as well as any external objects such as air conditioning units, television aerials, flues and solar panels.

Warranty

Due to its superior durability, ZINCALUME® steel with Activate® technology is backed by longer warranty periods, offering a warranty of up to 20 years for both residential and commercial applications.

ENVIRONMENT Distance to salt water (m)	EXPOSED COAST**	SHELTERED COAST*	CORROSION TO PERFORATION
Moderate	> 1000m	> 500m	20 years
Severe	500 - 1000m	100 - 500m	Not recommended
Very Severe	25 - 500m	25 - 100m	Not recommended

* SHELTERED COAST: Reef > 500m from shore / Inner atoll areas / Large calm lagoons and estuaries.

** EXPOSED COAST: Surf beach / Short distance between reef and land / High strength prevailing winds.

NOTE: Distances are measured from high water mark.



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