

DESIGNING FOR STEEL
ROOFING AND CLADDING

Zincalume® and Agriculture

ZINCALUME® STEEL
USAGE IN AGRICULTURE

Zincalume®





Roofing and Cladding

ZINCALUME® coated steel can be used for roofing and cladding in most agricultural buildings.

However, some intensive animal farming methods used for animals such as poultry, calves or pigs result in the animals being enclosed for significant periods of the year.

These conditions will result in the development of an alkaline environment due to the ammonia generated by the animal waste. In these conditions, ZINCALUME® coated steel or COLORSTEEL® prepainted steel should not be used. Contact New Zealand Steel Limited for specialist advice.

Other farming methods involve the occasional shedding of animals for a limited period. Buildings involved in these processes include cow sheds, shearing sheds and covered yards. Typically these buildings house animals for only short periods of the year and/or include very high levels of ventilation.

In a non-intensive environment the build up of ammonia is essentially non-existent. Under these conditions ZINCALUME® steel products will perform as well or better than galvanised steel.

For information about warranties and your shed, contact New Zealand Steel.

Effects of top dressing

Top dressing chemicals are generally a mixture of lime (calcium carbonate) and fertiliser (superphosphate). Limestone is alkaline and superphosphate is acidic. The reaction with both ZINCALUME® steel and galvanised products is therefore dependent on the combination of chemicals applied.

Water tanks

ZINCALUME® steel is not recommended for water tanks. Conditions within water tanks can be so variable that the passive film on the ZINCALUME® steel breaks down.

Culverts

Soil can vary widely in moisture content, acidity or alkalinity. Objects buried in soil can be subjected to bacterial activity and variable oxygen levels. For these reasons, ZINCALUME® steel is not recommended. We recommend galvanised steel.

For more information about NEW ZEALAND STEEL products call **0800 100 523** or visit **colorsteel.co.nz**



NOTE: Buyers and users of New Zealand Steel 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, phone 0800 100 523. New Zealand Steel 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'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. COLORSTEEL® and GALVSTEEL® are registered trademarks of New Zealand Steel Limited. ZINCALUME® is a registered trademark of BlueScope Steel Limited.

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