

FLASHING MATERIALS

RECOMMENDATION

Flashings and ridge capping should be manufactured from the same coating system as used for the main roof area to ensure equal durability. For COLORSTEEL® and ZINCALUME® steel products, 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.

For GALVSTEEL™ products, prepainted lead flashings can be used, as well as the above.

COMPATIBILITY

When two different metals are in contact and moisture is present, one metal is relatively protected while the other suffers accelerated corrosion. This is known as galvanic or bi-metallic corrosion. A similar problem commonly occurs with water flowing over dissimilar metals.

COPPER

Copper is not compatible with GALVSTEEL™, ZINCALUME® steel or COLORSTEEL® prepainted steel products, especially where it is in contact with water or where water can flow from it. Every effort must be made to prevent the overflow of water from copper pipes on to the roofing and guttering material.

COMPATIBILITY

ZINC/
ZINCALUME® /
ALUMINIUM
STEEL
LEAD
COPPER
STAINLESS STEEL

More Active Metals



More Noble Metals

This Chart lists commonly used metals in a "Galvanic series". If any two of these metals are in damp contact or a run-off situation, the metal higher on the table will sacrifice itself to protect the metal lower on the scale. Therefore the simple rule is to remember that you can run water down but not uphill. For example zinc to copper is alright but copper to zinc is not.

LEAD

Lead is not compatible with ZINCALUME® steel products. Corrosion will result from contact between lead and ZINCALUME® steel material or from water run-off from lead to ZINCALUME® steel products.

For this reason New Zealand Steel Limited does not recommend the use of lead with ZINCALUME® steel or COLORSTEEL® prepainted steel.

If lead is used with unpainted ZINCALUME® steel, a suitable barrier paint system must be applied to both products to prevent direct metal to metal contact. The entire surface of the ZINCALUME® steel roof must be painted. A barrier paint system must also be applied to the top surface of the lead to prevent indirect contact through water run-off.

If lead is used with COLORSTEEL® ENDURA™ or COLORSTEEL® MAXX™ products, a suitable barrier paint system must be applied to both surfaces of the lead to ensure there is no metal contact or indirect contact through water run-off.

In both cases, consideration must be given to the choice and maintenance of the barrier material or coating system to ensure it continues its insulation function for the expected life of the ZINCALUME® steel or COLORSTEEL® products. In most cases the expected durability of the ZINCALUME® steel or COLORSTEEL® products will far exceed that of the barrier system unless regular maintenance of the barrier system is carried out.

Some lead products are provided with a factory applied primer coat. The lead supplier should be contacted for advice as to a suitable finish coat barrier system and the ongoing maintenance requirements for this system.

New Zealand Steel Limited will not accept responsibility for any corrosion claims which occur as a result of the use of lead with ZINCALUME® steel or COLORSTEEL® products.



FURTHER INFORMATION

For additional information, literature or technical assistance, please contact:

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GALVSTEEL™

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 COLOUR FOR THE EXTREME

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