

COLORCOTE®

TECHNICAL

BULLETIN



Number 1 – July 2008.

ColorCote® ARX™ and AR8™ Roofing – Protection of Underside of Sheet Edge at and below First Purlin.

Pacific Coilcoaters has recently identified an issue involving the underside of ColorCote® ARX™ and AR8™ in Very Severe Marine environments (as per ISO Category 5, in AS/NZS 2728:2007).

The Issue.

Refer to accompanying photographs.

It is normal practice to fix the roof sheets so that the open end sits beyond the bottom purlin and over the gutter. Frequently, the paper underlay and its supporting galvanised wire netting also extends beyond the bottom purlin and into the gutter. In such situations, the ARX™/AR8™ and paper/netting combination at and immediately beyond the purlin are in contact with each other.

If the gutter is installed such that its front does not 'cover' the profile of the roofing, or if it stands off from the fascia, wind blown salt-laden air can be driven up and under the roof/paper/netting to the bottom purlin. Combined with contaminants, this mixture rusts the netting and saturates the paper, allowing the rusting netting to come into direct contact with the ARX™/AR8™. When this happens holes will develop in the aluminium in a very short period of time.

This is also seen on re-roofs in these environments where old paper and/or netting is left on the roof, or re-used.

Recommendations.

In Very Severe Marine environments:

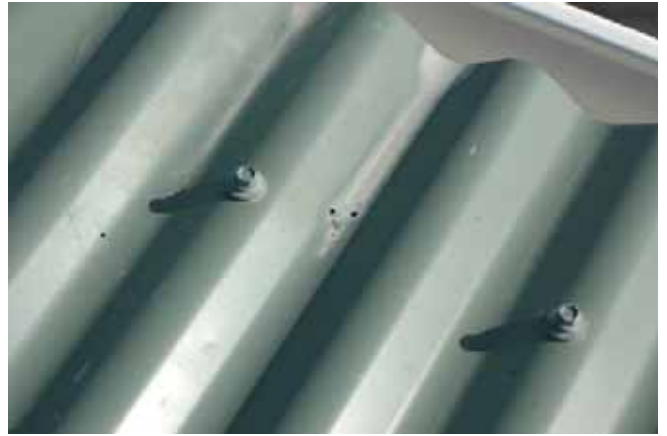
1. Always use new paper underlay.
2. Use self-supporting paper. If the pitch is under 8 degrees the use of some type of support is required by the Building Act – do not use galvanised wire netting, but a strapping or similar.
3. Run the paper to just below the bottom purlin, not to the gutter. Use a sacrificial eave flashing from the bottom purlin to the gutter. Refer to the NZMRM Code of Practice for details.
4. Ensure the ARX™/AR8™ is separated from any paper or flashing fasteners.
5. Install the gutter so that it protects the profile ends.
6. Try to design the building so its aspect is such that the profile ends face away from the driving wind/salt spray.

For further assistance contact Pacific Coilcoaters on 0800-ARXZRX, or 09-5799199, or by email on PCCWebSales@fcsp.co.nz, or visit www.colorcote.co.nz.





Paper has rotted away, netting has corroded, ARX™ has perforated as a result.



Perforation of the ARX™ at the bottom Purlin.



Gutter is installed incorrectly, paper has been rotted away, netting has rusted away, ARX™ has been perforated as a result.



Gutter installed well below profile line, so it doesn't stop salt and contaminant laden air from being blown under the roof.