



**Technical Data Sheet:** 05022016

**Title:** Acetic Acid Modified Salt Spray Test of painted Aluminium Sheet and Edging/ Venting Strip Products.

**Relevant Standard;** AS/NZS 2331.3.2. & ASTM G 85 – A1

**Introduction:** An Independent approved Laboratory was instructed to carry out a comparative controlled condensation test of several types of painted aluminium samples supplied. The samples were either finished products such as perforated edging or venting strips or flat sheet being the precursor to the finished products.

**Samples;** 14 various colours of 150mm x 150mm materials were tested.

**Test Methods;**

The products were exposed for 1000 hours as per the requirements of AS 2331.3.2. which is technically equivalent to ASTM G 85-A1. Both methods commonly referred to as 'Acetic Acid Salt Spray (Fog) Test'.

Upon completion of the prescribed performance test samples was evaluated as per the methods described in ASTM D 610, ASTM D 714, and ASTM D 1654. As appropriate for referencing to AS/NZS 2728; 2013 these observations were also expressed as detailed in AS 1580, Methods 481.3 and 481.1.9.

This test forms part of the performance requirements contained within AS/NZS 2728:2013, '*Prefinished/ Prepainted sheet metal products for Interior/exterior building applications – Performance Requirements*'.

As per Appendix 1. Table 11 of AS/NZS 2728:2013 aluminium substrate products of Product Type 4 or greater must pass a 1000 hour Acetic Acid Salt Spray (Fog) Test meeting the requirements list in Table 2.6

The main chamber operating requirements of this test method and the actual operating conditions achieved during this particular test are detailed in Table 2.

**Main Observations:**

In brief and in the context of these assessment methods carried out a rating of '0' for the various properties evaluated implies that this effect was practically not observed. I.e. no loss of adhesion, no blistering, no corrosion and no undercut (within the detection capabilities of the technique).

**Summary:**

**All samples tested met or exceeded where applicable the requirements of AS/NZS 2728013 '*Prefinished/ prepainted sheet metal products for interior/exterior building applications – Performance Requirements*'. Section 2.10 Corrosion Requirements, for aluminium substrates product Type 4 or higher (Table 2.6 & appendix 1).**