



Technical Data Sheet: 04022016

Title: **Controlled Condensation Test of painted Aluminium Sheet and Edging/
Venting Strip Products**

Relevant Standard: **AS/NZS 2728**

Introduction: An Independent approved Laboratory carried 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 product.

Samples: 14 various colours of 75mm x 150mm size materials were tested.

Methods:

The products were exposed for 500 hours as per the requirements of ASTM D 4585 – 07. '*Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation*', under prescribed controlled condensation conditions at 50 degrees C.

Upon completion of the prescribed performance test samples were evaluated a per the methods described in ASTM D 610, ASTM D 714 and ASTM D 1654.

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 Section 2.9 of AS/NZS 2728:2013 all products must pass a 500 hour controlled condensation test and meet the pass/fail criteria of Table 2.5.

Main Observations:

The main observations made upon completion of the 100% Relative Humidity/Condensation test as follows;

In brief and in the context of these assessment methods carried out a rating of 'O' 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:

During this controlled condensation test no adverse effects were noted on any of the specimens tested.

The samples tested here as per Section 2.9 of AS/NZS 2728:2013 met or exceeded the performance criteria of AS/NZS 2728:2013, Table 2.5