

## **Specification for uPVC Window Profiles for the Fabrication of Windows and Doors**

All uPVC window profiles used in the fabrication of windows and doors must comply with the European Standards EN12608 and EN513 as modified by this Specification for performance in the New Zealand climate and to demonstrate the 15 years minimum durability requirement of the New Zealand Building Code.

- a) Test as per EN12608 for the Severe Climate test option substituting a minimum 90GJ natural exposure to solar radiation (15 years NZBC durability requirement) for the 12GJ (2 years) European exposure requirement.

And/Or

- b) b) Incorporate a minimum 8phr Rutile Titanium Dioxide into the uPVC formulation and test to EN12608 and EN153.

Notes:

### **Test Certificates / Evidence of Compliance**

All test certificates must, in addition to normal test laboratory protocols, clearly state which of the above methods has been used and clearly identify the test sample so that it may be identified as identical to the product being offered for sale. (A record of the tested formulation is the most reliable way to achieve this). Accelerated natural exposure testing is available at Allunga and other accredited test facilities worldwide.

### **Rutile Titanium Dioxide Content**

To quickly ascertain the Rutile Titanium Dioxide content of an extruded profile, a preliminary XRF test should be completed. The XRF test will give a quick indication as to the suitability of a uPVC profile for New Zealand climatic conditions ahead of the lengthy artificial weather testing specified in EN513.

The Window & Glass Association New Zealand undertakes periodic sampling of uPVC products and provides a low cost XRF analysis service on request.

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Alternative Test method (a) added February 2015  
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