

AS2047 For Windows in buildings — Selection and Installation

Azuma's structural wind and water test rig is designed to test windows and doors to the requirements of Australian Standard "AS2047 for Windows in buildings – Selection and Installation". AS2047 incorporates the testing procedures outlined in AS4420 parts 0 through to 6 – test methods for doors and windows, establishing these as the minimum requirement for conformance to AS2047. Azuma provides facilities to conduct the following tests required for AS2047 conformance:

- Deflection test – AS4420.2: This standard addresses the deflection/span ratio of the window test sample under wind load. The deflection ratio is measured in both positive and negative load at the desired design pressure for the window under test.
- Operating force test – AS4420.3: This standard addresses the operating force for sliding sashes of the window test sample. The force to open and close a window either horizontally or vertically is measured and recorded in both directions.
- Air infiltration test – AS4420.4: This standard addresses the resistance of the window test sample to air infiltration. Air flow is measured and recorded at low pressures indicating the amount of air leakage emanating from the product under test.
- Water Penetration test – AS4420.5: This standard addresses the resistance of the window test sample to water penetration (under static wind load). Water is sprayed onto the product under test at a controlled rate and static pressure is applied for fifteen minutes at the desired design capability of the product.
- Ultimate strength test – AS4420.5: This standard addresses the ultimate load capacity of the window test sample. A pressure is applied to a product that represents a peak load at which the product needs not fail after 10 seconds in both positive and negative.

As this facility is a part of Azuma's NATA accredited laboratory all testing conducted can be issued with a NATA endorsed test certificate at completion. Alternatively this facility can be utilized for research and development or prototype evaluation prior to seeking a NATA endorsed certificate of conformance. Our facility can test product to maximum size of 2700mm (H) x 5000mm (W).