

CSIRO ACOUSTIC MEASUREMENT REPORT

Commonwealth Scientific and Industrial Research Organisation, Infrastructure Technologies Acoustics Testing Laboratory, Gate 5, 2 Normanby Road, Clayton, Vic 3168 Australia

Client: Jolong Window and Door Systems Pty Ltd

13-15 David St, Dandenong, Vic 3175, Australia

Measurement Type: Airborne Sound Insulation

AS 1191-2002 "Acoustics – Method for laboratory measurement of airborne sound insulation of building elements"

AS/NZS ISO 717.1:2004 "Acoustics - Rating of sound insulation in buildings and of building elements - Airborne sound insulation"

Test Specimen [Specimen area⁴: 1.80 m (w) x 1.20 m (h) = 2.17 m²]

Designation: Jolong 70 Series alu.thermal break hand cranking awning window system;

double glazed, 5/12Ar/5, wiith scissor-action winder and twin side cam latches

Description¹

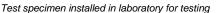
- As per client drawing 'Jolong Acoustic Testing(Detail drawing).pdf', page 4.
- Awning window (full width single sash), operable with scissor-action winder and twin side-cam latches.
- Framing: proprietary aluminium extrusions.
- Glazing: double glazed system, 5 mm clear toughened / 12 mm Argon / 5 mm clear toughened.
- Mechanical components: stays, cams and scissor-action winder mechanism as per Jolong specifications.
- Sealing: as per drawing, rubber glazing wedges sealing glazing units in sashes, sashes sealed to frame with linear sealing components fitted into extrusion profiles as per design, and overall frame sealed within test aperture of laboratory using expanding foam and wet caulking.

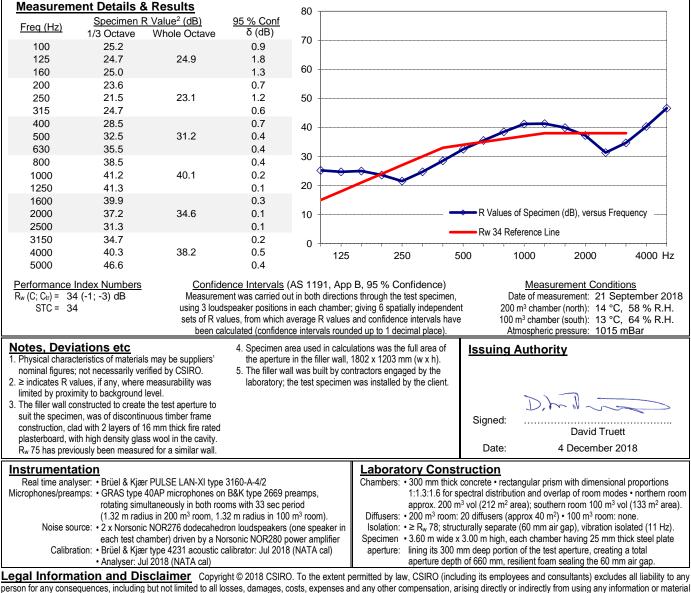
See following page for client drawing.

Installation5:

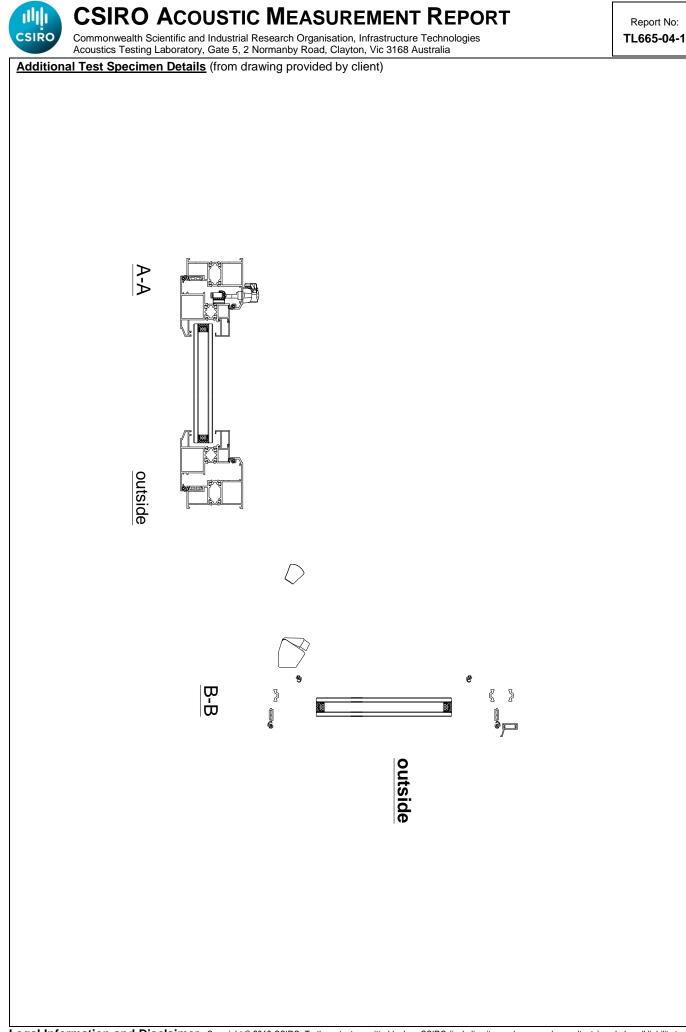
- A filler wall³ was built to create a reduced size test aperture in the laboratory for the test specimen.
- The test specimen frame was manufactured with ≈ 5 mm of installation clearance, placed in the test aperture. positioned with glazing packers as required, screw-fixed and sealed with expanding foam and caulking compound.
- The test specimen was positioned in the portion of the aperture contained within the 200 m³ reverberation chamber with a minimal indent from the face of the filler wall
- Sashes and glazing units were placed in the frame and installation completed.
- . The window was operated ten times by laboratory staff after installation and immediately prior to acoustic testing. • The door was tested with both of the side-cam latches engaged and the operable chain winding mechanism fully closed.







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