

Airborne Sound Insulation

Altair Louvre Window

The Altair Louvre window system has been both laboratory and field tested for sound transmission loss.

The laboratory tests were conducted by Stantec Australia Pty Ltd. Testing was conducted to AS1191-2002 in accordance with AS5218:2018.

The field tests were conducted by a member firm of the Association of the Australia Acoustical Consultants. Testing was conducted to AS 5218:2018 and ISO 717-1: 1996E.

	Lab Test	Field Test
Blade Material	R _w (C,Ctr)	R' _w 45° _w (C,Ctr)
Toughened Glass	28 (0;-1)	27 (-0.6;-2.7)
Aluminium	25 (-1;-2)	25 (-0.7;-2.3)
Timber	-	24 (-0.9;-3.1)

Dualair System

The Altair Dualair Secondary Glazed Louvre system has been laboratory tested for sound transmission loss.

The laboratory tests were conducted by the CSIRO on an Altair Dualair Secondary Glazed Louvre System. The windows comprised of Altair Dualair Secondary Glazed Louvre System within Alspec McArthur 150mm Framing. Testing was conducted to AS/NZS 1276.1:1999 (ISO 717-1:1996).

Test results for Dualair System.

Outer Blade Material	Inner Blade Material	R _w (C;Ctr)
Glass	Glass	35 (-1;-3)
Aluminium	Glass	35 (-2;-4)

IGLU Louvre System

The Altair IGLU Louvre System has been laboratory tested for sound transmission loss.

The laboratory tests were conducted by Stantec Australia Pty Ltd. Testing was conducted to AS1191-2002 in accordance with AS5218:2018.

Test results for IGLU Louvre System.

IGLU Blade	R' _w (C;Ctr)
5mm Glass / 12mm Argon / 5mm Glass	30 (-1;-3)