

Airborne Sound Insulation

Altair Louvre Window

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

The field tests were conducted by a member firm of the Association of the Australia Acoustical Consultants and were carried out on Altair windows 2400 high x 840 wide and 2100 high x 840 wide. Testing was conducted to ISO 717-1: 1996E.

Blade Material	R ^{45°w} (C,Ctr)	R ^w (C,Ctr)
Toughened Glass	27 (-0.6;-2.7)	28 (-0.9;-2.9)
Aluminium	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 1220 high x 1100 wide. 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 configured to maximise water penetration resistance (WPR).

Inner Blade Material	Outer Blade Material	STC	R ^w (C;Ctr)
Toughened Glass	Toughened Glass	35	35 (-1;-3)
Toughened Glass	Aluminium	34	35 (-2;-4)

Test results for Dualair System configured to maximise airborne sound isolation (STC).

Inner Blade Material	Outer Blade Material	STC	R ^w (C;Ctr)
Toughened Glass	Toughened Glass	38	38 (-1;-4)
Toughened Glass	Aluminium	36	37 (-2;-4)