Testing Data Sheet

ACOUSTIC

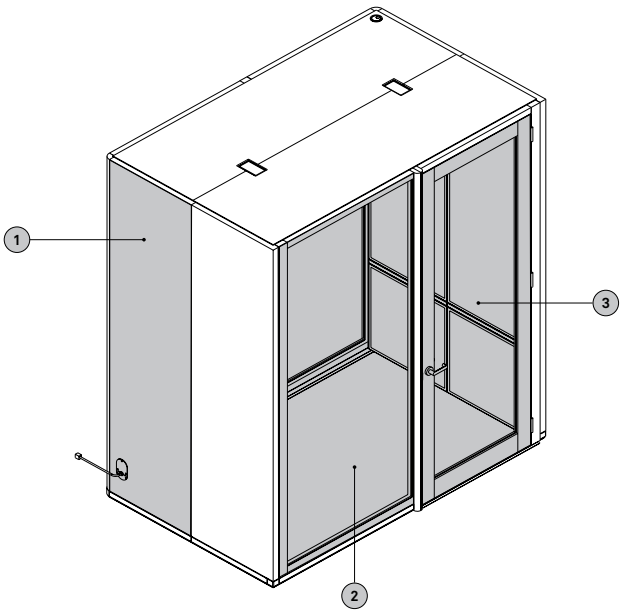
Performance level:

Models:
Phone Room
Phone Room Plus
Work Room
Gather Room
Gather Room Plus
Meeting Room

		TEST RESULTS	
In-situ Testing**		**Category 1**	**Category 2**
Complete Room Assembly	The Complete FQR Work Room assembly was tested in vacant office building with carpet and suspended acoustic ceiling tiles	**DW 32** **DnTw 33** **NIC 32**	**DW 35** **DnTw 35** **NIC 35**
Laboratory Testing			
1. Solid Wall Panel	Pressed core panel with fabric finish to one side and insulated wall tile to interior face	**Rw 37** **STC 37**	**Rw 43** **STC 43**
2. Glazed Wall Panel	Solid timber framed laminated glass panel	**Rw 35** **STC 34**	**Rw 39*** **STC 39**
3. Operable Glazed Door	Solid timber frame with laminated glass panel contains 3 hinges and AS1428 compliant door handle	**Rw 34** **STC 33**	**Rw 36*** **STC 36**

**Building floor space, flooring covering and ceiling height will impact the result.

*Sourced from Viridian Glass



Testing Data Sheet

ACOUSTIC

ACOUSTIC TESTING STANDARDS

In-Situ Tests:
Airbourne Sound Insulation Testing performed in accordance with:
ISO-140.4 (Dw & DnTw)
ASEM E336-20 (NIC)

Results assessed & presented in accordance with calculation procedures:
ISO-717-1 (Dw & DnTw)
ASEM E413-16 (NIC)

Lab Tests:
Measurement Type: Airbourne Sound Insulation
AS-1191-2002 R2016 (Rw)

Results assessed & presented in accordance with calculation procedures:
AS/NZ ISO-717-1 (Rw)

GUIDELINE FOR COMMERCIAL BUILDING ACOUSTICS

'The relationship between Rw and Dw values varies according to site-specific factors, such as room geometry and finishes. Competent acoustical consultants are able to advise and document the necessary design Sound Reduction (R) values and construction methods to meet each overall Level Difference (D) value to be provided. Generally, for assessment of typical interior fitouts, the in-situ performance is judged acceptable where the measured Dw test result is at least the design Rw value less 5 dB. In summary, it is recommended that:

Weighted Sound Reduction (Rw) values are used for design and procurement purposes of individual building elements; and Weighted Level Difference (Dw, D.w and DnT.w) values are used for in-situ verification of a construction performance because they provide a measure of the 'as-experienced' condition, including the level of degradation from any unwanted flanking paths which can arise from poor design and/or construction'.*

**According to the Association of Australian Acoustical Consultants Guideline for Commercial Building Acoustics ver. 2.0. Complete document available via www.aaac.org.au.*