Pacific Single Glazed Timber Framed Acoustic Windows SPA48-AW

DESCRIPTION

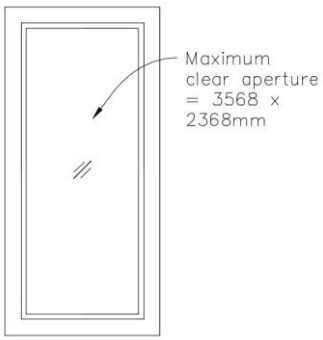
Pacific Acoustic Windows are glazing units designed and tested for sound attenuation to a range of STC ratings. The units are all timber framed with fixed glazing, for interior use.

For further information on this product, visit:
https://www.pacificdoors.co.nz/products/acoustic/acoustic-windows/spa48-aw

PRODUCT OPTIONS

The SPA48-AW is a double-glazed unit.

Window type	Max Glazed Area		Clear View		Overall Frame		Frame Type		STC Rating
			Min. mm	Max. mm	Min. mm	Max. mm	Timber	Steel	
SPA48-AW	4.9m2	Height	318	3568	442	3692	√	-	48
		Width	148	2368	272	2492	√	-	48



Sizing Rules

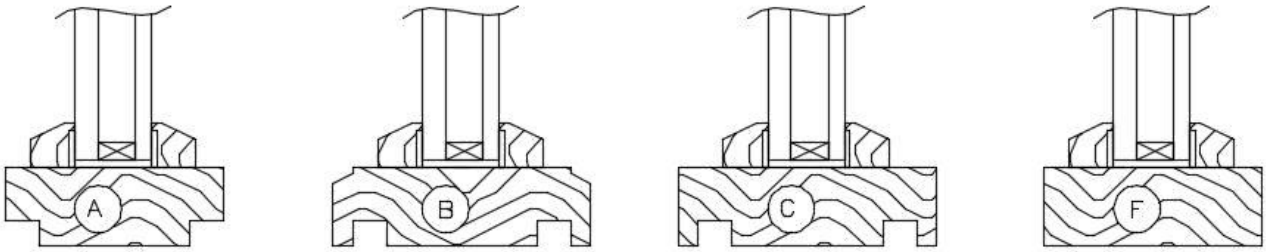
The tested size for this window is 1993 mm H x 1084 mm W overall frame size. Acoustic performance may vary for extremely large or small units.

Frame Types & Profiles

Timber Frame

This window is available in the below frame profiles.

Data Sheet



Standard jamb thicknesses are 30mm and 42mm. For more in-depth information on frame profiles and sizes, please see our Installation Instructions.

Steel Frame

These units are not available in a steel frame.

Wall Types

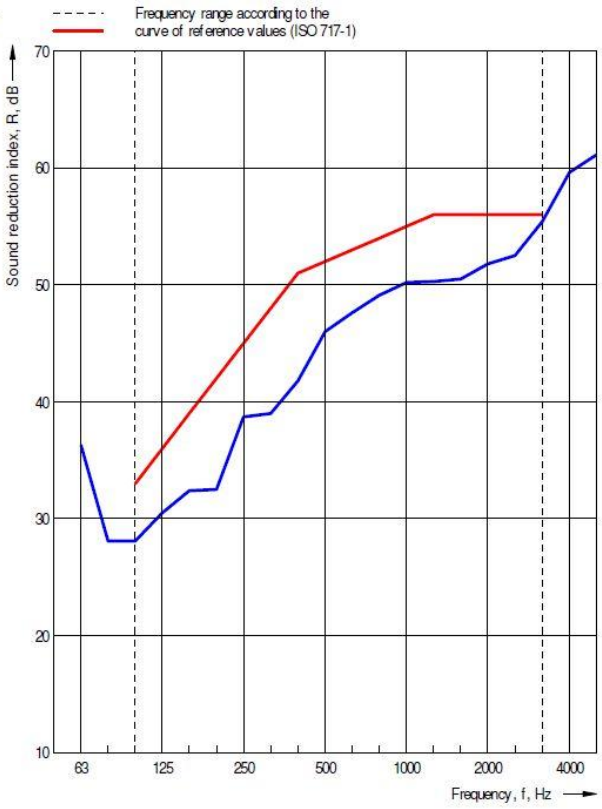
- Masonry or Gib® Systems.

The entire assembly including wall, frame and window glazing is the tested unit.

ACOUSTICAL PERFORMANCE GRAPHS

Size of test opening:	2.20	m²
Mass per unit area:	50	kg/m²
Temperature:	11.0	°C
Air humidity:	81	%
Source room volume:	62.3	m³
Receiving room volume:	56.0	m³

Frequency f [Hz]	R 1/3 octave [dB]
50	
63	36.3
80	28.1
100	28.1
125	30.5
160	32.4
200	32.5
250	38.7
315	39.0
400	41.8
500	46.0
630	47.6
800	49.1
1,000	50.2
1,250	50.3
1,600	50.5
2,000	51.8
2,500	52.5
3,150	55.4
4,000	59.6
5,000	61.1



Rating according to ISO 717-1

$R_w(C;C_{tr})$ = 48 (-2;-6) dB

Evaluation based on laboratory measurement results obtained in one-third-octave bands by an engineering method.

$C_{50\text{-}3150}$ = dB $C_{50\text{-}5000}$ = dB $C_{100\text{-}5000}$ = -1 dB

$C_{tr,50\text{-}3150}$ = dB $C_{tr,50\text{-}5000}$ = dB $C_{tr,100\text{-}5000}$ = -6 dB