21/10/2026

Data Sheet

Pacific AD200-E Acoustic Door Set STC/Rw 40

Description

The AD200-E Exterior is a hinged flush panel door that is suitable for sheltered exterior use, available as a single or paired door set, had been acoustic tested and designed to reduce sound transmission between buildings and outdoor situations.

For further information on this product, visit:
https://www.pacificdoors.co.nz/products/acoustic/acoustic-doors/ad-200-e

Product features:

Product features:

- STC 40 acoustic rating
- Single or pair
- 3 frame options
- Suitable for both interior and exterior.
- Compatible with timber stud, steel stud and masonry wall
- Certified acoustic performance to ISO 140-3

Product options

The thickness of the AD200-E door leaf is 51mm with an approximate leaf weight of 35kg/m2.

Wall Type	Acoustic Rating	Door Application	Max Leaf Height (mm)	Max Leaf Width (mm)
Steel Stud Wall Timber Stud Wall Masonry Wall	STC/Rw 40	Single	2700	1200
		Pair	2700	1200

Notes:

1. Please note that the maximum leaf width shown above is measured per door leaf.

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Wall Types
Door sets must be installed carefully, with particular attention to sealing gaps, including around the frame-to-wall junction.

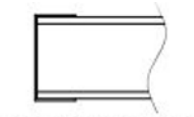
Leaf Facings
The facings listed below are available for the AD200 door set

- Metal Sheet, Galv or stainless (0.9mm)*

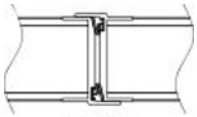
Notes:

1. Of the above facings only those marked * may extend around the door edge.
2. Other facings may be available, please contact Pacific Doors to discuss further options.

Leaf Edges
The leaf edges listed below are available for the AD200 door set


Folded Steel/Ali Cap

Meeting Stiles
The meeting stiles listed below apply to paired door sets only.


J-section

Hardware and seals

Hardware
The AD200-E requires suitable latching in order for the frame seals to fully seal the gap between door leaf and frame.

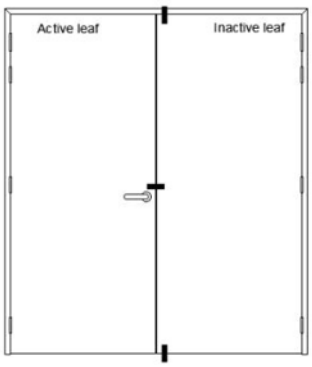
Practically any standard door hardware can be used on the AD200-E, however the proposed hardware must be advised to Pacific Door Systems Ltd to assess the suitability, before manufacture.

Any penetrations through the leaf should be packed with acoustic materials (e.g. batts) wherever possible.

Concealed hinges are not an option on this doorset.

Recommended latching points are shown in the below diagram. Pair doorsets require a designated inactive leaf which is secured top and bottom.





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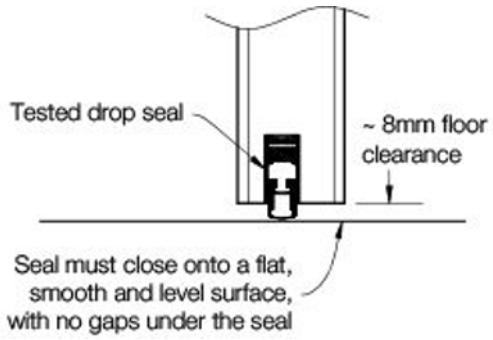
Concealed hinges are not an option on this doorset.

Recommended latching points are shown in the below diagram. Pair doorsets require a designated inactive leaf which is secured top and bottom.

Seals
The perimeter frame seals are self-adhesive seals mounted in the frame rebate, so are hidden when the door is closed.

The bottom seal (Type T) is an aluminium threshold (natural anodised) with integral seal.

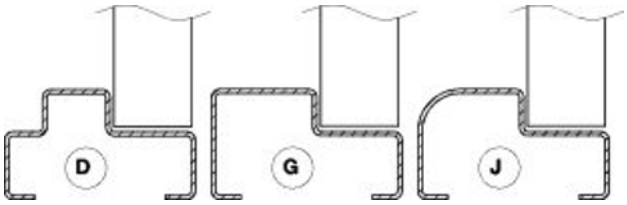
The height of the gap between the finished floor level and the bottom of the door must be set up carefully during installation of the door set so that the door will engage with the threshold seal as intended.



Frame types and profiles

Timber Frame
Timber frames are not available for the AD200-E.

Steel Frame
The steel frame profiles listed below are available for the AD200 door set



Steel frames require packing of the frame during installation with fibrous insulation material (e.g. fibreglass, mineral wool or polyester batts).

For more in-depth information on frame profiles and sizes, please see our Installation Instructions.

Vision panel
The AD200-E exterior door set does not include vision panels.

Performance

Smoke control
AD-series acoustic doors are available with a smoke control rating (-/-/-/ SM). These doors comply with the NZBC C/AS2 C6.1.2 definition of smoke control doors.

Thermal insulation
This door leaf has a thermal insulation rating (R-value) of 0.811 Km2/W.

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Acoustal performance graphs

Size of test opening:	1.92	m²
Mass per unit area:	35	kg/m²
Temperature:	19.0	°C
Air humidity:	49	%
Source room volume:	62.3	m³
Receiving room volume:	56.0	m³

Frequency f [Hz]	R 1/3 octave [dB]
50	16.6
63	15.9
80	22.7
100	27.9
125	22.0
160	29.2
200	30.5
250	33.0
315	38.7
400	40.8
500	41.1
630	40.6
800	41.9
1,000	42.9
1,250	41.8
1,600	38.9
2,000	38.7
2,500	41.0
3,150	43.8
4,000	44.4
5,000	43.5



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Rating according to ISO 717-1

$R_w(C;C_{tr})$ = 41 (-2;-4) dB

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

$C_{50\text{-}3150}$ = -2 dB $C_{tr,50\text{-}3150}$ = -8 dB

$C_{50\text{-}5000}$ = -1 dB $C_{tr,50\text{-}5000}$ = -8 dB

$C_{100\text{-}5000}$ = -1 dB $C_{tr,100\text{-}5000}$ = -4 dB

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