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Pacific VP60 Premium Fire Door

DESCRIPTION

The VP60 fire door set is perfect for use both indoors and in sheltered outdoor areas. You can choose from timber or steel frames, and it offers the widest selection of leaf facings, meeting stiles, and hardware options in our range of 60-minute fire protection doors.

Product features

60min fire rating

Single or pair

10 facing options

12 frame options

5 glass options

Compatible with timber stud, steel stud, masonry, Korok and James Hardie walls

Optional sidelights and over lights

Acoustic rating available

Ventilation grilles available

Meets NZS4520.2010 standard

For further information on this product, visit:

<https://www.pacificdoors.co.nz/products/fire/fire-doors/frr-60-minute/vp60>

PRODUCT OPTIONS

Leaf Size and Wall Type

Leaf Size

Timber-framed smoke control doors include a seal in the frame. Steel framed doors include the PFS-4 seal. If required, bottom seals can be selected from the Hardware list.

The thickness of the VP60 door leaf is 48mm with an approximate leaf weight of 27kg/m²

Wall Type	Jamb Type	Fire Resistance Rating Stability/Integrity/Insulation	Door Application	Max Leaf Height (mm)	Max Leaf Width (mm)
Steel Stud Wall Timber Stud Wall Masonry Wall	Timber	-/60/60sm	Single	2700	1020
			Pair	2700	1020
Steel Stud Wall Timber Stud Wall Masonry Wall	Steel	-/60/60sm	Single	3000	1500
			Pair	3000	1500
Korok / Speedpanel	Steel	-/60/30sm	Single & Pair	2400	1200
				2700	1050
Korok	Timber	-/60/60sm	Single	2197	920
James Hardie	Steel	-/60/30sm	Single	2400	1020

Notes:

1. Please note that the maximum leaf width shown above is measured per door leaf.
2. The 'sm' above denotes that the door is available as a smoke control door set.
3. Meeting stiles for doors installed into Korok walls are restricted to J-Section or Bullnose.
4. Timber framed doorsets in Korok walls have limited installation options. Please see the installation section for details.
5. Timber jambs are not possible for doors installed into James Hardie walls
6. Insulation ratings must be notified at time of pricing for steel frames. Maximum insulation ratings shown. Some wall applications will have a maximum 30 minute insulation rating.
7. Door sets with leafs larger than 2700 x 1200 are not intended for frequent use, we recommend they be typically either held open or closed with compliant hardware in normal operation.
8. JHETGJ60 is the only approved James Hardie fire rated wall system.
9. Minimum width for a fire door leaf is governed by the need to fit a compliant closer. Typically, 400 mm is the practical minimum.

Wall Types

As previously noted, Jambs may be connected to timber stud, steel stud or concrete/masonry walls. The minimum specification for each wall type is:

- Precast concrete (100mm thickness) or grouted blockwork (minimum 140mm thickness).
- Timber or steel stud plasterboard walls of FRR -/60/60 or above. Note that steel framed VP60 door sets may only be installed in walls of minimum stud size ex 100x50mm (Gib® Fire Rated Systems).
- Universal Wall systems GBUW60a or GBUW60b
- Gib Weatherline Rigid Air Barrier Systems GWTLE 60a, GWTLE 60b, GWTLF 60, GWSE 60 and GWSP 60
- Speedpanel & Korok walls (51mm, 64mm or 78mm)
- James Hardie JHETGJ60 fire rated wall system.
- Boral 25mm shaftliner wall (Note special installation details and size restrictions apply refer Pacific Doors for details)

Door Leaf Options

Leaf Facings

- MDF
- Hardboard
- Oil Tempered Hardboard
- Plywood
- Timber Veneers
- Acrylic - vinyl sheets up to 1.5mm thick (e.g. Acrovyn, Korogard)
- Sheet Vinyl (1.25 – 2mm)
- High pressure laminate up to 1.5mm thick (e.g. Laminex, Formica)
- Decorative timber mouldings/panels
- Aluminium sheet (0.3 – 1mm) *
- Metal Sheet, mild or stainless (0.6 – 1.0mm) *

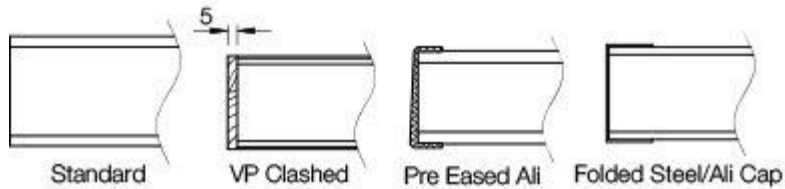
Notes:

- Of the above facings only those marked * may extend around the door edge.
- Timber veneers up to 0.7mm are available with all fire ratings. Timber veneers between 0.7 - 1.5 mm requires FRR -/60/60 and is only available in timber frame or grouted steel frame
- Steel frames are required where metal capping is used.
- Standard Paint Quality doors are allowed 'non-clashed' to provide best surface for finish painting.
- See Additional Door Options for more facing alternatives.

Leaf Edges

The leaf edges listed below are available for the VP60 door set.

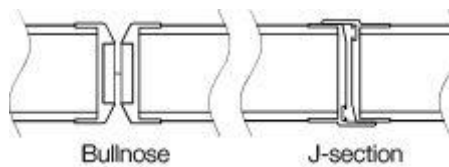
Paint quality doors are non-clashed as standard.



Notes: Metal cappings are not available for timber framed doorsets or doors into Speedwall or James Hardie.

Meeting Stile

The meeting stiles listed below are applicable to paired door sets only.

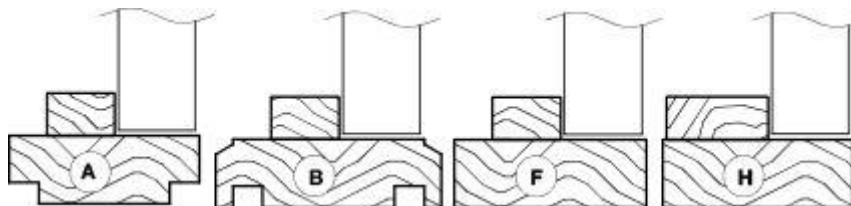


Frame Types & Profiles

Timber Frame

The timber frame profiles listed below are available for the VP60 door set.

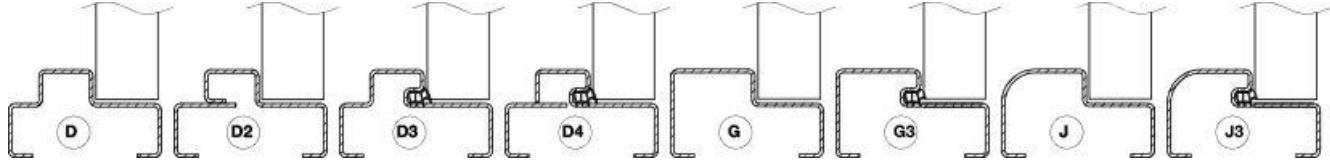
Timber density requirements exclude some species of timber. Timber must be a hardwood with minimum density of 580kg/m³.



Steel Frame

The steel frame profiles listed below are available for the VP60 door set.

The VP60 door set is available in the two-part steel frame system for fixing to walls already lined.



Notes:

1. D2 and D4 require minimum 110 mm wall thickness
2. D2 and D4 are not available with sidelights and overlights, and are not compliant in Speedwall/Korok or James Hardie wall.
3. D2 and D4 are limited to a fire rating of -/60/30 sm.

Standard frames are three-sided only with no sill. Four-sided frames and/or custom sills may be available on request. Timber sills are not available on fire doorsets. For more in depth information on frame profiles and sizes, please see our Installation Instructions.

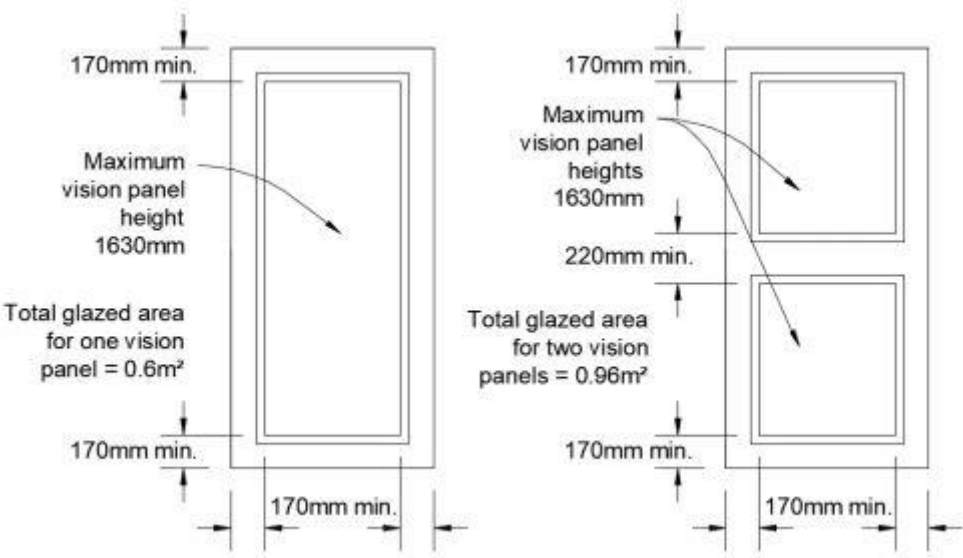
Vision Panel

Glazing Type	Maximum Glazed Area(m ²)		Max Height (mm)	Max Width (mm)	Glazing Bead		FRR with Vision Panel	
	Per VP	Total			Timber	Aluminum	Up to 0.065m ²	Over 0.065m ²
Pyrobel*	0.6m ²	0.96m ²	1630	950	✓	✓	-/60/60	-/60/30
Georgian Wired	0.32m ²	0.32m ²	850	950		✓	-/60/60	-/60/-
Firelite	0.32m ²	0.32m ²	850	950		✓	-/60/60	-/60/-
Robax	0.32m ²	0.32m ²	850	950		✓	-/60/60	-/60/-
Pyran*	0.32m ²	0.32m ²	850	950		✓	-/60/60	-/60/-

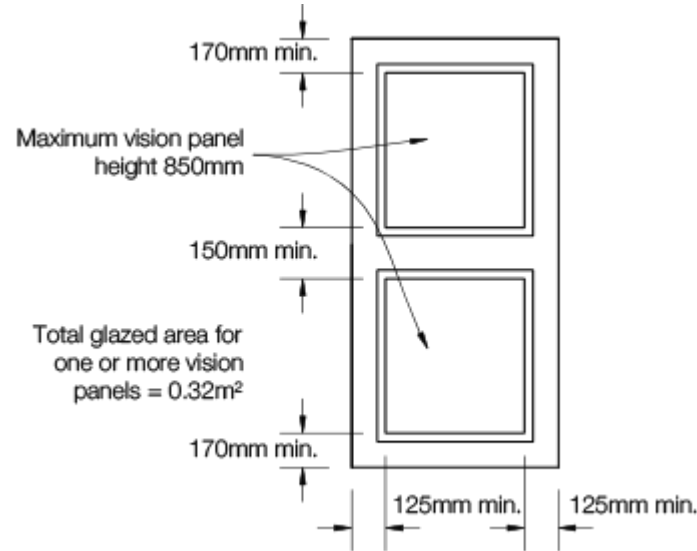
Notes:

1. Please note that the height and width of the vision panel must still fall within the maximum glazed area.
2. A maximum of two vision panels are permitted per leaf.
3. Glazing types marked with * indicate Grade A Safety glass.
4. Circular vision panels are not possible with Pyrobel glazing.
5. Pyrobel is not suitable for exterior doors.
6. Circular vision panels are not currently offered for this product.

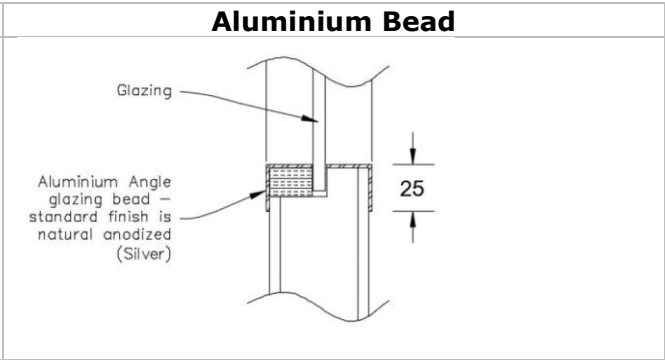
Glazing details for Pyrobel Glazed Vision Panels



Glazing Details for Other Glazing Types



Standard Vision Panel Cross Sections

Timber Bead*	Aluminium Bead
 <p>Glazing</p> <p>Hardwood timber glazing bead</p> <p>28</p> <p>*Pyrobel only</p>	 <p>Glazing</p> <p>Aluminium Angle glazing bead – standard finish is natural anodized (Silver)</p> <p>25</p>

Performance

Acoustic Performance

An acoustic rating of STC 31 (Rw 32) is available for ply / MDF faced doors and STC 36 (Rw 38) for steel face doors.

Tested acoustic seals are Lorient LAS1212 perimeter seals and LAS8007si drop seal.

Pair doors are acoustic tested with J-section meeting stile with one line of Schlegel QEZ6.8 acoustic seal.

Vision panels are not acoustic tested. Pyrobel glazing is rated Rw 39 from the supplier, Pyran S is Rw 31.

Thermal insulation

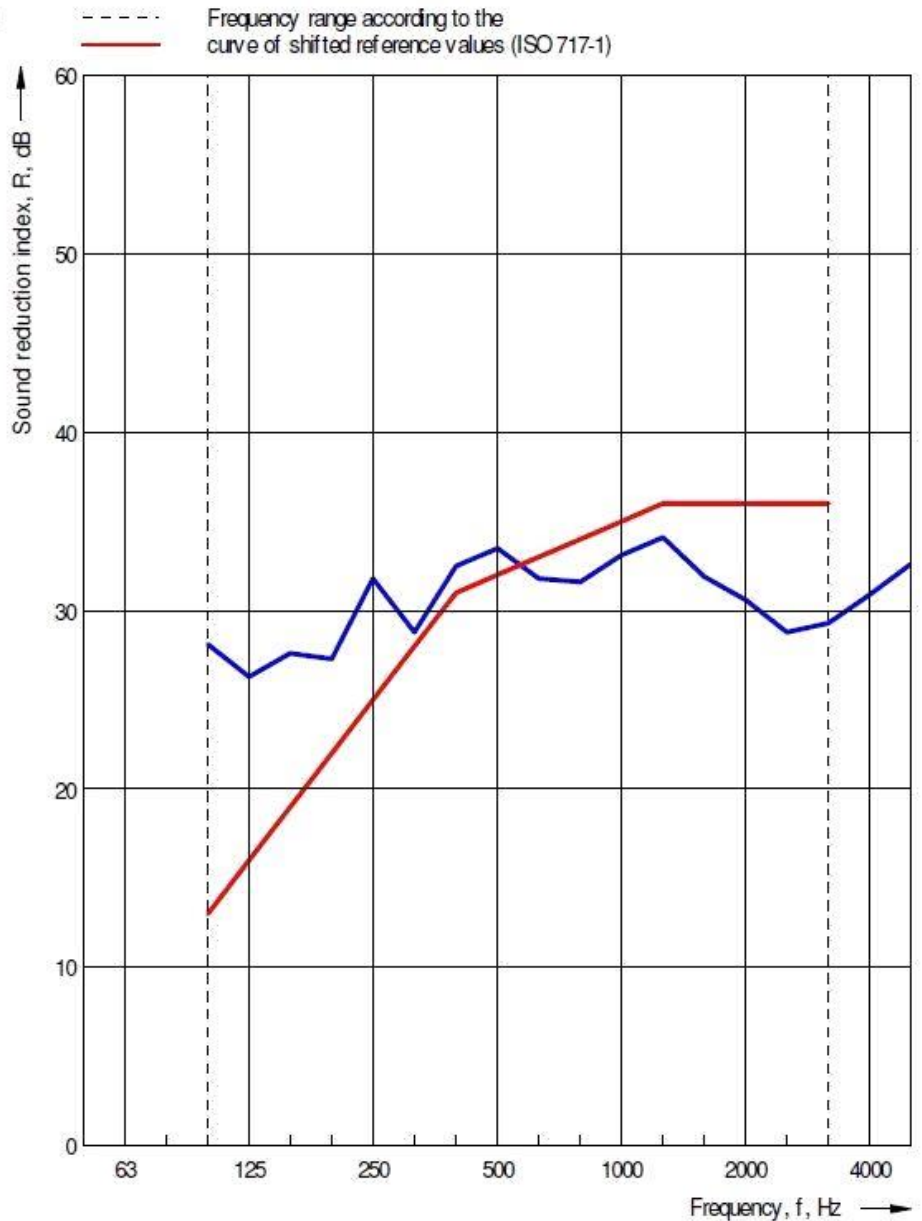
This door leaf has a thermal insulation rating (R-value) of 0.645 Km²/W.

Acoustical Performance Graphs

Plywood or MDF faces: Rw 32 / STC 31:

Size of test opening:	4.20	m ²
Mass per unit area:	27	kg/m ²
Temperature:	17.0	°C
Air humidity:	90	%
Source room volume:	62.3	m ³
Receiving room volume:	56.0	m ³

Frequency f [Hz]	R 1/3 octave [dB]
50	
63	
80	
100	28.1
125	26.3
160	27.6
200	27.3
250	31.8
315	28.8
400	32.5
500	33.5
630	31.8
800	31.6
1,000	33.1
1,250	34.1
1,600	31.9
2,000	30.6
2,500	28.8
3,150	29.3
4,000	30.9
5,000	32.6



Rating according to ISO 717-1

$R_w(C;C_{tr}) = 32 (-1; -1)$ dB

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

$C_{50-3150} =$ dB

$C_{tr,50-3150} =$ dB

$C_{50-5000} =$ dB

$C_{tr,50-5000} =$ dB

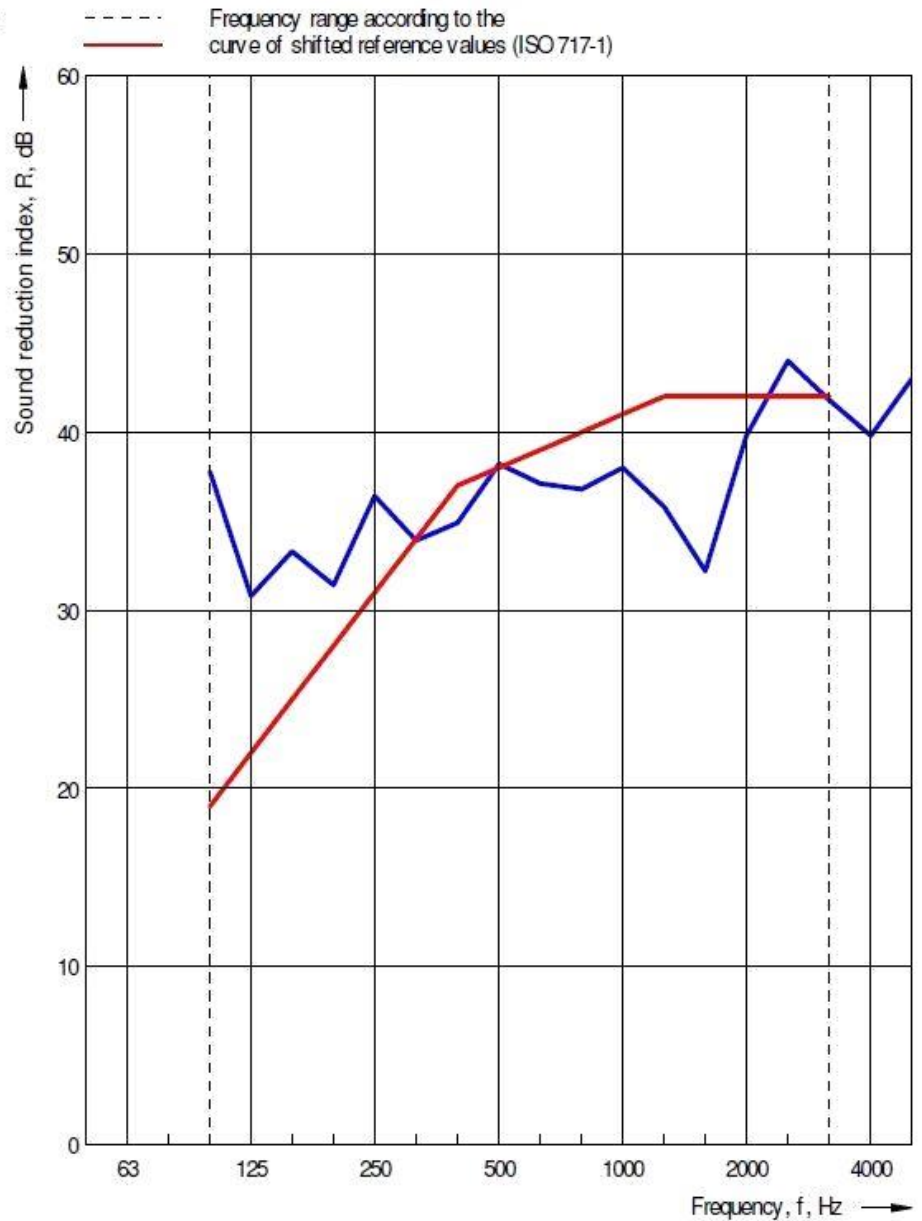
$C_{100-5000} = -1$ dB

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

Steel faces: Rw 38 / STC 36:

Size of test opening:	4.20	m ²
Mass per unit area:	27	kg/m ²
Temperature:	17.0	°C
Air humidity:	90	%
Source room volume:	62.3	m ³
Receiving room volume:	56.0	m ³

Frequency f [Hz]	R 1/3 octave [dB]
50	
63	
80	
100	37.8
125	30.8
160	33.3
200	31.4
250	36.4
315	33.9
400	34.9
500	38.2
630	37.1
800	36.8
1,000	38.0
1,250	35.8
1,600	32.2
2,000	39.8
2,500	44.0
3,150	41.8
4,000	39.8
5,000	43.0



Rating according to ISO 717-1

$R_w(C;C_{tr}) = 38 (-1; -2)$ dB

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

$C_{50-3150} =$ dB

$C_{tr,50-3150} =$ dB

$C_{50-5000} =$ dB

$C_{tr,50-5000} =$ dB

$C_{100-5000} = -1$ dB

$C_{tr,100-5000} = -2$ dB